RENSSELAER POLYTECHNIC INSTITUTE,

TROY, N. Y.

FOUNDED 1824.

ANNUAL REGISTER,

APRIL, 1893.

REGISTER OF GRADUATES, 1826-1892,

WITH

GEOGRAPHICAL INDEX.

RENSSELAER POLYTECHNIC INSTITUTE.

MAIN BUILDING.

GYMNASIUM.

ALUMNI BUILDING.

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RENSSELAER

POLYTECHNIC INSTITUTE,

TROY, N. Y.

FOUNDED 1824.

ANNUAL REGISTER,

APRIL, 1893.

TROY, N. Y.:
WM. H. YOUNG, 8 & 9 FIRST STREET.
1893.

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ESTABLISHMENT OF THE INSTITUTE.

The Rensselaer Polytechnic Institute was founded in 1824, by the late Hon. Stephen Van Rensselaer, as a *School of Theoretical and Practical Science.* In 1826 it received from the Legislature of the State of New York its act of incorporation, with those chartered powers and privileges usually granted to the higher educational institutions of this State.

In 1849 the Institute was re-organized upon the basis of a general Polytechnic Institute. Among the changes then introduced were a material enlargement of its course of study, with a proportionate increase of the time alloted to it, and a more elevated standard of requirements for the admission of candidates to the honors of graduation.

Since its foundation the Institute has sent forth a large number of graduates, who—as professors and teachers of the mathematical and physical sciences, as practical chemists and geologists, and as engineers in the various departments of constructive and topographical art,—have contributed to the increase and diffusion of science, as well as its applications to the business pursuits of life, with a success to which, it is believed, the Institute may refer with becoming confidence and just pride.

This register contains the name and present occupation of every living graduate of the institution and thus affords those interested an opportunity to judge of the character of its training. It should, however, be borne in mind that only the current, not the completed, work of the alumni is shown.

The Institute is located at Troy, New York, and its students

are within easy access to engineering work of all kinds and in the midst of manufacturing plants of great diversity. The Burden horse shoe and rolling mills and blast furnaces; the Troy Steel and Iron Company's furnaces, Bessemer steel works and rail mills; the Clinton stove works; the Gurley Mathematical and Engineering Instrument factory and the Harmony Cotton Mills of Cohoes, all known throughout the country as pioneers in their specialties, are located within three miles of the Institute buildings.

Besides these, at Troy, Albany, West Troy, Green Island and Cohoes, and reached by street cars, are water works of every system, steel bridge works, wrought iron pipe works, architectural iron works, electric light and railway plants of many types, the magnificent United States steel gun shops at Watervliet Arsenal, car shops and numberless forges, foundries, factories and machine shops engaged in an almost unequaled variety of production. Within an hour's ride are the Schenectady locomotive works and the extensive shops of the Edison Electric Company. Railroad and canal construction, architectural work and bridge building are illustrated both by usual and extraordinary structures. Coal and iron mines, marble and slate quarries are within visiting distance.

Students are thus afforded opportunities for investigation and observation of unequaled educational value in the line of their studies. The situation is healthy and has been peculiarly free from malarial and typhoid diseases. Troy has within its corporate limits about sixty-five thousand inhabitants and within a circle of seven miles are upwards of two hundred thousand people, with all the opportunities for general culture that great communities afford.

CALENDAR.

1893-94.

SUMMER VACATION.

1893.

January	2	*Monday*	Christmas recess ends.
January	27	*Friday*	Winter session ends.
February	2	*Thursday*	Summer session begins.
February	2	*Thursday*	Examinations for admission.
February	6	*Monday*	Lectures and recitations begin.
May	31	*Wednesday*	Examinations for admission.
June	14	*Wednesday*	COMMENCEMENT.

SUMMER VACATION.

September	13	*Wednesday*	Winter Session begins.
September	13	*Wednesday*	Examinations for admission.
September	14	*Thursday*	Examinations for admission.
September	15	*Friday*	Lectures and recitations begin.
November		*Thursday and Friday*	Thanksgiving recess.
December	23	*Saturday*	Christmas recess begins.

1894.

January	2	*Tuesday*	Christmas recess ends.
February	2	*Friday*	Winter session ends.
February	8	*Thursday*	Summer session begins.
February	8	*Thursday*	Examinations for admission.
February	12	*Monday*	Lectures and recitations begin.
May	30	*Wednesday*	Examinations for admission.
June	4	*Monday*	Field work for Divisions B and C begins.
June	13	*Wednesday*	COMMENCEMENT.
June	30	*Saturday*	Field work for Divisions B and C ends.

PRESIDENTS.

Rev. SAMUEL BLATCHFORD. D. D.,	1st Prest.	1824-28
Rev. JOHN CHESTER, D. D.,	2d Prest.	1828-29
ELIPHALET NOTT, D. D., LL. D.,	3d Prest.	1829-45
NATHAN S. S. BEMAN, D. D.,	4th Prest.	1845-65
Hon. JOHN F. WINSLOW,	5th Prest.	1865-68
THOS. C. BRINSMADE, M. D.,	6th Prest.	1868-68
Hon. JAS. FORSYTH, LL. D.,	7th Prest.	1868-86
JOHN HUDSON PECK, LL. D.,	8th Prest.	May, 1888

BOARD OF TRUSTEES.

JOHN HUDSON PECK, LL. D., President.
ALBERT E. POWERS, Vice-President.
WILLIAM H. DOUGHTY, C. E., Secretary.
WILLIAM H. YOUNG, Treasurer.

JOSEPH M. WARREN, A. M.
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CHARLES MACDONALD, C. E.
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WILLIAM KEMP.
JAMES P. WALLACE, C. E.
Rev. J. IRELAND TUCKER, D.D.
JOSEPH C. PLATT, C. E.
ELIAS P. MANN, C. E.
STEPHEN W. BARKER, M. E.
HENRY B. DAUCHY.
HENRY G. LUDLOW.
ROBERT W. HUNT.
THEO. VOORHEES, C. E.
EDWARD C. GALE, C. E.
JOHN SQUIRES, C. E.
HORACE G. YOUNG, C. E.
PAUL COOK.

Mayor of Troy, Ex-Officio.

COMMITTEES OF THE BOARD OF TRUSTEES.

PRUDENTIAL COMMITTEE.

JOHN HUDSON PECK,

ALBERT E. POWERS, ELIAS P. MANN.

FINANCE COMMITTEE.

ALBERT E. POWERS,

HENRY B. DAUCHY, HENRY G. LUDLOW.

SENIOR PROFESSORS AND DIRECTORS.

AMOS EATON, A. M., Senior Professor,	- -	1824–42
GEO H. COOK, C. E., Ph. D., Senior Professor,	-	1842–46
B. FRANKLIN GREENE, C. E., A. M., Director,	-	1847–59
NATHAN S. S. BEMAN, D. D.,	" -	1859–60
CHARLES DROWNE, C. E., A. M.,	" -	1860–76
WILLIAM L. ADAMS, C. E.,	" -	1876–78
DAVID M. GREENE, C. E.,	" -	1878–91
PALMER C. RICKETTS, C. E.,	" -	1892

FACULTY AND INSTRUCTORS.

JOHN HUDSON PECK, LL. D.,
PRESIDENT,
Lecturer on the Law of Contracts,
Troy.

PALMER CHAMBERLAINE RICKETTS, C. E.,
DIRECTOR,
William Howard Hart Professor of Rational and Technical Mechanics,
17 First St.

JAMES HALL, A. M., LL. D.,
N. Y. STATE GEOLOGIST,
Emeritus Professor of Theoretical, Practical, and Mining Geology,
Albany.

DASCOM GREENE, C. E.,
Professor of Mathematics and Astronomy,
113 Third St.

HENRY B. NASON, PH. D., M. D., LL. D.,
Professor of Chemistry and Natural Science,
10 Washington Place.

DWINEL FRENCH THOMPSON, B. S.,
Professor of Descriptive Geometry, Stereotomy and Drawing,
Lansingburgh.

WILLIAM PITT MASON, C. E., M. D.,
Professor of Analytical Chemistry,
156 First St.

WILLIAM GALT RAYMOND, C. E.,
Professor of Geodesy, Road Engineering and Topographical Drawing,
53 Second St.

WALTER LeCONTE STEVENS, Ph. D.,
Professor of Physics,
53 Second St.

H. De. B. PARSONS, B. S., M. E.,
Professor of Steam Engineering,
New York.

CHARLES WINTHROP CROCKETT, C. E., A. M.,
Assistant Professor of Mathematics and Astronomy,
95 Grand St.

BENEDICT PAPOT,
Instructor in the French Language and Literature,
220 Jay St., Albany.

JOHN G. MURDOCH, A. M.,
Instructor in the English Language and Assistant in Mathematics,
2013 Fifth Ave.

HUGH ANDERSON, C. E.,
Assistant in Rational and Technical Mechanics,
123 Twelfth St.

EDWARD R. CARY, C. E.,
Instructor in Botany and Assistant in Geodesy,
Locust Ave.

JOHN H. EMIGH, C. E.,
Assistant in Mathematics and Geodesy,
Locust Ave.

EDWARD FENEMORE CHILLMAN, C. E.,
Assistant in Descriptive Geometry and Drawing,
17 First St.

JAMES McGIFFERT, JR., C. E.,
Assistant in Mathematics,
148 Eighth St.

PEMBERTON SMITH, C. E.,
SIGNAL ENGINEER, N. Y. C. & H. R. R. R.
Lecturer on Railroad Signals,
Albany.

LECTURERS FOR THE YEAR

ENDING JUNE, 1893.

ALPHONSE FTELEY,
Chief Engineer of the New York Aqueduct Commission,
Some Practical Remarks on the Construction of Dams.

J. JAMES R. CROES,
Consulting Engineer,
Passenger Traffic in Great Cities.

THEODORE VOORHEES,
Vice President of the Philadelphia and Reading Railroad Company,
Transportation.

ALFRED E. HUNT,
President of the Pittsburgh Reduction Company,
Aluminum.

ALFRED P. BOLLER,
Consulting Engineer,
The Foundations and Masonry of the new Central Bridge and Approaches, Harlem River, New York.

THEODORE COOPER,
Consulting Engineer,
Specifications.

RUDOLPH HERING,
Consulting Engineer,
The Design of Sewerage Systems.

HORACE SEE,
Consulting Engineer,
Boilers.

REGISTER OF STUDENTS.

DIVISION A.—Class of 1893.

Frederick Arthur Bagg, *Greenbush, N. Y.*,	Greenbush
Percy Caufield Barney, *Chillicothe, Mo.*,	121 Eighth St
Alfred Whitfield Burge, *Troy, N. Y.*,	147 Third St
Ralph Hamilton Chambers, *St. Joseph, Mo.*,	48 Second St
Benjamin Le Fevre Coulson, *Maplewood, O.*,	105 Grand St
Washington Righter Craig, *Columbia, Pa.*,	71 Grand St
Wallace Greenalch, *East Albany, N. Y.*,	East Albany
Vernon Hill Gridley, *Troy, N. Y.*,	728 Federal St
Fred Taylor Hepburn, *Troy, N. Y.*,	105 Grand St
George Terry Horton, *Chicago, Ill.*,	81 Fourth St
Walter Scott Jones, *Greenbush, N. Y.*,	Greenbush
Theodore Ely Knowlton, *Watertown, N. Y.*,	102 Second St
Fred Julius Lempe, *Lansingburgh, N. Y.*,	Lansingburgh
William Marcy, *Belmont, Mass.*,	81 Fourth St
John Hays Myers, Jr., A. B., *New York City*,	4 Union Place

Theobauldo de Souza Quieros, *S. Paulo, Brazil,*
25 Seventh St

Charles Peace Roy, *Troy, N. Y.,*
39 First St

Mackey James Thompson, *La Crosse, Wis.,*
1712 Fifth Ave

German Uribe H., *Rio Negro, R. of C.,*
1821 Fifth Ave

Samuel Walter Williams, *Ridgeway, Pa.,*
1640 Fifth Ave

DIVISION B.—Class of 1894.

Mario Paes de Barros, *Saõ Paulo, Brazil,*
47 Fourth St

James Joseph Blake, *Philadelpia, Pa.,*
Lansingburgh

William Charles Boyd, *Pittsburgh, Pa.,*
62 Grand St

Marshall Wright Brown, *Erie, Pa.,*
1712 Fifth Ave

Safford Kinkead Colby, *San Francisco, Cal.,*
4 Union Place

Douglass Cornell, *Buffalo, N. Y.,*
Mutual Bank Building

Samuel Brice Curfman, *Steubenville, O.,*
50 State St

George Conrad Diehl, *Buffalo, N. Y.,*
105 Grand St

Sotero E. Escarza y Curbelo, A. B., *Cienfuegos, Cuba,*
84 Grand St

Edwin Stanton Fickes, *Steubenville, O.,*
50 State St

John Flynn, Jr., *Troy, N. Y.,*
Maple Ave

James Welch Frazier, *Pittsburgh, Pa.,*
162 Eighth St

Frederick Ferdinand Fuess, *Erie, Pa.*, 121 Eighth St

William Stetson Garland, *Cohoes, N. Y.*, Cohoes

Frederick Alfred Ginebra, *St. Domingo, W. I.*, 1821 Fifth Ave

Fred K. Hilt, *Greenbush, N. Y.*, Greenbush

Frederic de Peyster Hone, *Red Bank, N. J.*, 102 Second St

Ernest Edmund Brydone Jack, A. B., *Frederic, N. B.*, 78 Grand St

Elmour Fitch Kirtland, *Poland, O.*, 17 Seventh St

Fred Arnold Kummer, *Baltimore, Md.*, 105 Grand St

James Beaty Maguire, *Albany, N. Y.*, Albany

John Lowrey Martin, *Troy, N. Y.*, 3 Elm Place

Joseph Alexander Mayers, *Troy, N. Y.*, 81 Fourth St

William Maxwell McCartney, *Coitsville, O.*, 78 Grand St

George Albert McKay, *Troy, N. Y.*, 192 Third St

James Alex. McPherson, Jr, *Troy, N. Y.*, Brunswick Road

Harry Lockwood Olmstead, *Danbury, Conn.*, 162 Eighth St

Miguel C. Palmer y Garcia, *Havana, Cuba*, 3 Linden Ave

Paul Lyon Reed, *Denver, Col.*, 81 Fourth St

James Walter Rickey, *Minneapolis, Minn.*, 17 Seventh St

Charles Frederick Rockwood, *Buffalo, N. Y.*, 1821 Fifth Ave

John Newton Shannahan, *Green Island, N. Y.*, Green Island

Robert Erwin Sheal, *Steubenville, O.*,
30 Fourth St

George Albert Soper, *New York City*,
102 Second St

George Whitfield Sykes, *Mercer, Pa.*,
105 Grand St

Toyojiro Terashima, *Tokio, Japan*,
121 Eighth St

Warren Bertram Travell, *Troy, N. Y.*,
Cor. Jacob and 12th Sts

Edgar Vaughan, A. B., *Louisville, Ky.*,
105 Grand St

George Sherzer Walsh, *Lincoln, Neb.*,
121 Eighth St

Fred Larnard Wheeler, *Lansingburgh, N. Y.*,
Lansingburgh

DIVISION C.—Class of 1895.

William Henry Adey, *Cohoes, N. Y.*,
69 Seventh St

William Herman Apgar, *New Brunswick, N. J.*,
145 Eighth St

James Kelso Boyd, *Turtle Creek, Pa.*,
1821 Fifth Ave

Christobal Segundo Brauet, *Guantanamo, Cuba*,
Brunswick Road

William Carl Brohm, *Louisville, Ky.*,
6 St. Paul's Place

Morton Burden, *Troy, N. Y.*,
148 Eighth St

Guy Catlin, *Providence, R. I.*,
1821 Fifth Ave

William Henry Scott Cole, *Troy, N. Y.*,
Burden Ave

Samuel Todd Davis, Jr., *Washington, D. C.*,
114 Third St

George William Diekmeier, *Cincinnati, O.*, 23 Times Building

Frederick Edwards, *Troy, N. Y.*, 369 Congress St

Myron Edward Evans, *Nebraska City, Neb.*, 145 Eighth St

Elam LaRoy Gardner, *Troy, N. Y.*, Oakwood Ave

Julio Garzon, N., *Bogota, R. of C.*, 110 Eighth St

Lester Robinson Gifford, *New Bedford, Mass.*, 2 Seventh St

Luis Enrique Gomez, P., *Bogota, R. of C.*, 1821 Fifth Ave

Walter Bruce Gormly, *Troy, N. Y.*, 11 Thirteenth St

Harry Madera Gould, *Louisville, Ky.* Brunswick Road

John William Grace, *Chicago, Ill.*, 5 Union Place

Alexander Haring, *Troy, N. Y.*, 2337 Sixth Ave

Emerson George Hidley, *Wynantskill, N. Y.*, 69 Seventh St

Alfred Blakelee Hine, *Poland, O.*, 1821 Fifth Ave

Berton Waldron Huntoon, *Fairhaven, Wash.*, 728 Federal St

George Blaco Kelley, *Green Island, N. Y.*, Green Island

Harry Richmond Kelley, *Green Island, N. Y.*, Green Island

Jacob Farrand Lewis, *Joliet, Ill.*, 81 Fourth St

James Fuller Lord, *Chicago, Ill.*, Mutual Bank Building

Henry Basil Magor, *Montreal, Can.*, 1821 Fifth Ave

Athol Morton Miller, *Duluth, Minn.*, 102 Second St

Frank Adrian Ray, *Brooklyn, N. Y.*, 79 Grand St

Octavio Mario Reyes, *Bogota, R. of C.*, 30 Grand St

William White Rousseau, Jr., *Troy, N. Y.*, 2 Walnut Place

Cesar Teran, *Valera. Venezuela*, 30 Grand St

Austin K. Tiernan, *Salt Lake City, Utah*, 105 Grand St

Walter James Town, *Topeka, Kan.*, 69 Seventh St

Charles Royce Ward, *Troy, N. Y.*, 5 Tenth St

DIVISION D.—Class of 1896.

John Aguilar, *Guantanamo, Cuba*, 105 Grand St

George Wilcox Aird, *Cohoes, N. Y.*, Cohoes

Harry Fay Allen, *Hoosick Falls, N. Y.*, Hoosick Falls

William Price Andres, *Troy, N. Y.*, 381 Eighth St

Lucius Wright Arms, *Lansingburgh, N. Y.* Lansingburgh

Brayton Raymond Babcock, *Slingerlands, N. Y.*, Slingerlands

Charles Mercer Bailey, *Philadelphia, Pa.*, 105 Grand St

Annibal Paes Barros, *Saõ Paulo, Brazil*, 47 Fourth St

Harry Franklin Bascom, *Whitehall, N. Y.*, 145 Eighth St

Mark Eugene Bayly, *Tlacotalpan, Vera Cruz, Mexico,*
243 Eighth St

Edward Waterbury Becker, *West Troy, N. Y.,*
West Troy

George Henry Beebe, *Syracuse, N. Y.,*
69 Seventh St

Fred Grandiard Bell, *McGregor, Iowa,*
195 Eighth St

Alexander Johnson Blackstone, *Central City, S Dak.,*
2 Linden Ave

Paul Blake, *Madison, N. J.,*
145 Eighth St

Joseph Orton Board, *Chester, N. Y.,*
3 Anthony Place

Charles Arthur Bradley, *Troy, N. Y.,*
177 Eighth St

William Alexander Brown, *Madison, Ind.,*
24 Times Building

Melville Douglass Chapman, *New York City,*
1821 Fifth Ave

Richard Joseph Chazaro, *Tlacotalpan, Vera Cruz, Mexico,*
243 Eighth St

Edwin C. Clark, *Waterloo, N. Y.,*
6 St. Paul's Place

Howard Albert Cleaver, *Milwaukee, Wis.,*
81 Fourth St

Manuel Coroalles, *Panama, S. A.,*
73 Grand St

Harold Jennings Coupland, *Troy, N. Y.,*
3326 Sixth Ave

Warren Curtis, Jr., *Palmer, N. Y.,*
121 Eighth St

William Clapp Cuthbert, *Argyle, N. Y.,*
63 Seventh St

Henry Hatfield Decker, *New York City,*
145 Eighth St

William Henry Benedict Disbrow, *So. Norwalk, Conn.*, 3 Union Place

James Aubrey Dyer, *West Troy, N. Y.*, West Troy

Albert Dan Edwards, *Youngstown, O.*, 81 Fourth St

Harry Ogden Fairweather, *Troy, N. Y.*, 1629 Fifth Ave

Walter Lynam Fales, *Troy, N. Y.*, 1614 Fifth Ave

Willard Cornell Farrington, *Syracuse, N. Y.*, 69 Seventh St

Oliver Dwight Filley, *Lansingburgh, N. Y.*, Lansingburgh

Frederic William Finzer, *Louisville, Ky.*, 84 Grand St

John Francis Gaynor, Jr., *Fayetteville, N. Y.*, 67 Seventh St

Robert Irwin Gleason, *Troy, N. Y.*, Oakwood Ave

Robert Saltern Givens, *Chicago, Ill.*, 81 Fourth St

Irving Goodfellow, *Troy, N. Y.*, 32 Glen Ave

Fred Clinton Grant, *Troy, N. Y.*, 233 Eighth St

Lewis Theophilus Griffith, *Troy, N. Y.*, 146 Second St

David Sumner Griffiths, *Springfield, Ill.*, 2 Linden Ave

Samuel Carlton Haight, *New York City*, 6 St. Paul's Place

Eugene Cornelius Hanavan, *Buffalo, N. Y.*, 111 Eighth St

Francis Burt Harrington, *Albany, N. Y.*, Albany

James Joseph Hartman, *Munich, Bavaria*, 70 Seventh St

Charles Hubbard Hill, *West Troy, N. Y.*,	West Troy
Lemuel Holmes, *Elmira, N. Y.*,	2 Ida Terrace
Augustus Crane Hone, *Red Bank, N. J.*,	102 Second St
Asa Chapman Isham, *Cincinnati, O.*,	3 Union Place
Frederick Spence Janes, *New London, Conn.*,	73 Grand St
Fred Frank Kellner, *Louisville, Ky.*,	67 Seventh St
Charles Frederick Keyser, *Baraboo, Wis.*,	15 Bleeker Ave
Andrew Kidd, Jr., *Troy, N. Y.*,	558 First St
William Kinnaird, *McGregor, Iowa*,	145 Eighth St
George Kirk, *Troy, N. Y.*,	145 Eighth St
Gustav Adolph Kreischer, *Albany, N. Y.*,	Albany
William Chauncey Langdon, *Buffalo, N. Y.*,	114 Third St
George Louis Lehle, *Chicago, Ill.*,	148 Eighth St
William John Lyons, *Uniontown, Pa.*,	11 Second St
Arthur Justin Mahon, *Rochester, N. Y.*,	239 Eighth St
George Albert Mahony, *Troy, N. Y.*,	135 First St
William Joseph Mahony, *Troy, N. Y.*,	135 First St
Henry John McCann, *Albany, N. Y.*,	Albany
Charles Joseph McDonough, *Buffalo, N. Y.*,	84 Grand St

William Erastus McKelvy, *E. Pittsburgh, Pa.*,
1821 Fifth Ave

Phillip Schuyler Miller, *Stillwater, N. Y.*,
245 Eighth St

John Edward Moran, *Troy, N. Y.*,
Liberty St

William Newton Morrison, Jr., *St. Louis, Mo.*,
67 Seventh St

John Fred Munn, *Troy, N. Y.*,
249 Eighth St

Frederick Albert Neal, Jr., *Honeoye Falls, N. Y.*,
Lansingburgh

Lester William Newbre, *Milwaukee, Wis.*
1821 Fifth Ave

Charles Howard O'Hara, *Brooklyn, N. Y.*,
1916 Fifth Ave

Edward Lawrence Orth, *Harrisburgh, Pa.*,
102 Second St

John Beaton Parr, *Leechburg, Pa.*,
6 St. Paul's Place

William Faber Phillips, *Denver, Col.*,
67 Seventh St

John Mortmer Podmore, *So. Norwalk, Conn.*,
3 Union Place

John C. Ranney, *Mohawk, N. Y.*,
Lansingburgh

Edward Dunbar Rich, *Syracuse, N. Y.*,
69 Seventh St

Robert Parker Richardson, *Kansas City, Mo.*,
73 Grand St

Henry Ferdinand Rittler, *Baltimore, Md.*,
145 Eighth St

Drew King Robinson, *New York City*,
1640 Fifth Ave

Charles Edwin Rogers, *Cohoes, N. Y.*,
Cohoes

Harry McKnight Schaeffer, *Reading, Pa.*, 143 Eighth St

Frederick Rensselaer Schoonmaker, *Troy, N. Y.*, Myrtle Ave

Jesse Carlton Scobey, *Kansas City, Mo.*, 105 Grand St

Edward Anderson Smith, *Troy, N. Y.*, 111 Eighth St

Harry Edward Stannard, *Troy, N. Y.*, 2513 Fifth Ave

James Stephenson, Jr., *Omaha, Neb.*, 143 Eighth St

Fred Bulkley Stoddard, *West Troy, N. Y.*, West Troy

Peter Ganesvoort Ten Eyck, *Albany, N. Y.*, Albany

William Shepard Thomas, *Oakland, Cal.*, 3 Union Place

Charles Bartlett Travis, *Whitehall, N. Y.*, 145 Eighth St

Alberto de la Torre, *Bogota, R. of C.*, 148 Eighth St

Walter Simonson Vail, *Newburgh, N. Y.*, 67 Seventh St

Henry Belin Voorhees, *Spuyten Duyvil, N. Y.*, 106 Second St

Ernst Adam Weber, *New York City*, 67 Seventh St

William Earl Whitney, *Bradford, Pa.*, 30 Fourth St

Arthur Howard Wilcox, *Brooklyn, N. Y.*, 1821 Fifth Ave

Frank Hill Worthington, *Steubenville, O.*, 71 Grand St

Gilbert Young, *Malone, N. Y.*, 48 Second St

SPECIAL STUDENTS.

John Walter Bowman, *Green Island, N. Y.*, Green Island

Augustus Lape Craig, *Troy, N. Y.*, 175 First St

Lafayette Augustus Gibbs, C. E., *Johnsonville, N. Y.*, 17 Seventh St

George Heuisler, *Santiago, Chili*, 30 Grand St

James Francis Mahan, *Troy, N. Y.*, 315 Congress St

Benj. Waldman Mann, *Albany, N. Y.*, Albany

Levi Brown Renfrew, *Adams, Mass.*, 81 Fourth St

Burt Charles Stannard, *Troy, N. Y.*, 2513 Fifth Ave

Harry Hubert Walsh, *Albany, N. Y.*, Albany

SUMMARY.

Division A,	20
" B,	40
" C,	36
" D,	101
Special Students,	9
Total,	206

GRADUATES JUNE 15, 1892.

Carlos Constantino Arosemena, C. E., B. S., *Panama, C. A.*
Charles Edwin Birch, C. E., - - - *Carthage, O.*
Nimrod W. L. Brown, C. E., - - - *Hurtsboro, Ala.*
Elmer James Bucknell, C. E., - - - *Decorah, Iowa.*
James Burden, C. E., - - - - - *Troy, N. Y.*
Frank Taylor Chambers, A. B., C. E., - *Louisville, Ky.*
*Albert Beecher Cook, B. S., C. E., - *Cynthiana, Ky.*
Leonard Martin Cox, A. B., C. E., - - *Troy, N. Y.*
Fred Davenport, C. E., - - - - *Jacksonville, Ill.*
Möise DeLeon, C. E., - - - - - *Trenton, N. J.*
George Ezra Ellis, C. E., - - - - *Fairhaven, Mass.*
Edward Elting Emmerich, C. E., - - - *Chicago, Ill.*
Harvey Feldmeier, C. E., - - - *Brooklyn, N. Y.*
Thomas J. Foster, C. E., - - - *Los Angeles, Cal.*
Lafayette Augustus Gibbs, C. E., - *Johnsonville, N. Y.*
Samuel Kirtland Hine, B. S., - - - - *Poland, O.*
Albert Lloyd Hopkins, C. E., - - - - *Troy, N. Y.*
William Wallace Jeffers, C. E., - - *Ticonderoga, N. Y.*
James Martial Lapeyre, A. B., C. E., - *New Orleans, La.*
Arthur Van Allen McHarg, C. E., - - *Albany, N. Y.*

*Dead.

Jo. Dorr Murray, C. E., - - - *Hillsdale, N. Y.*
Dan Henry Nellis, C. E., - - - - - *Girard, Pa.*
Paul Cook Nugent, A. B., C. E., - - - *Salem, Va.*
George Clifford Plummer, C. E., - *Philadelphia, Pa.*
Dan Rice, Jr., C. E., - - - - - *Troy, N. Y.*
Charles Herman Ruggles, C. E., - - *San Francisco, Cal.*
Frederick Alfred Sabbaton, C. E., - - - *Troy, N. Y.*
Charles George Schade, C. E., - - - *Pittsburgh, Pa.*
William Calvin Hoover Slagle, C. E., - *Philadelphia, Pa.*
Harmon Mowry Smith, C. E., - - *Mechanicville, N. Y.*
Arnold Henry Sutermeister, C. E., - *Kansas City, Mo.*
Arthur Wellington Thompson, C. E., - - *Ottawa, Can.*
William McGehee Wallace, C. E., - *Wallacetown, Va.*
Charles Worthington, C. E., - - - *Glyndon, Md.*

GRADUATING THESES.

1.—The Effect of Sedimentation on the Self-purification of Running Streams.

CARLOS CONSTANTINO AROSEMENA, *Panama, C. A.*

2.—Design for a System of Water Works for a City of 20,000 Inhabitants. The Supply to be obtained from Driven Wells.

CHARLES EDWIN BIRCH, *Cincinnati, O.*

3.—Design for a Dynamo to Supply Power for Operating a Street Railway, 4,600 feet long.

NIMROD WASHINGTON LONG BROWN, *Hurtsboro, Ala.*

4.—The Hardening of Steel and its Effect upon the Ultimate Resistance

ELMER JAMES BUCKNELL, *Decorah, Iowa.*

5.—Design for a plate Girder, Deck Bridge of two Spans, one 60 feet, the other 50 feet.

JAMES BURDEN, *Troy, N. Y.*

6.—Design for a Wrought Iron Viaduct, three Spans of 60 feet each, and two Spans of 30 feet each.

FRANK TAYLOR CHAMBERS, *Louisville, Ky.*

7.—Design for a Single Track, Triangular Truss, Pin Connected, Deck Railroad Bridge, Span 150 feet.

ALBERT BEECHER COOK, *Cynthiana, Ky.*

8.—Design for a Turbine Plant to Develop 1,500 Horse Power under a Head of 23 feet.

LEONARD MARTIN COX, *Louisville, Ky.*

9.—Design for a Single Track, Half Through Skew Plate Girder Bridge, with Buckle Plate Floor System, Span 70 feet.

FRED DAVENPORT, *Jacksonville, Ill.*

10.—Design for a Wrought Iron, Triple Intersection, Through, Single Track Railroad Bridge, Span 120 feet.

MOISE DE LEON, *Charleston S.C.*

11.—Design for an Interlocking Switch and Signal System for the D. and H. Yards at Green Island, N. Y.

GEORGE EZRA ELLIS, *Fairhaven, Mass.*

12.—Design for a Double U Magnet Motor of 15 Horse Power to run a Car over a line 4,600 feet long.

EDWARD ELTING EMMERICH, *Chicago, Ill.*

13.—The Effect of Overstrain on Metals.

HARVEY FELDMEIER, *Brooklyn, N. Y.*

14.—Review of the Cupolas of the Troy Steel and Iron Company.

THOMAS J. FOSTER, *Los Angeles, Cal.*

15.—Design for a Masonry Arch of 50 feet Span.

LAFAYETTE AUGUSTUS GIBBS, *Johnsonville, N. Y.*

16.—Research on the Oxidation of Organic Matter in Potable Water.

SAMUEL KIRTLAND HINE, *Poland, Ohio.*

17.—Design for a Double Track Pratt Truss Railroad Bridge, Span 138 feet.

ALBERT LLOYD HOPKINS, *Troy, N. Y.*

18.—Design for a Turbine Plant Developing about 2,500 Horse Power under a Head of 45 feet.

WILLIAM WALLACE JEFFERS, *Ticonderoga, N. Y.*

19.—Design for a Pin-Connected, Deck, Pratt Truss, Railroad Bridge, with an Iron Floor System, Span 140 feet.

JAMES MARTIAL LAPEYRE, *New Orleans, La.*

20.—Design for a Pair of Triple Expansion, Marine Engines; to Develop 10,000 Indicated Horse Power.

ARTHUR VAN ALLEN MCHARG, *Albany, N. Y.*

21.—Design for the Substructure of a Railroad Bridge, with different Conditions, viz.: on Clay; using Coffer Dam; Piles; Caisson.

JO. DORR MURRAY, *Hillsdale, N. Y.*

22.—Design for a Triple Intersection, Lattice, Through Bridge, Span 117 feet.

DAN HENRY NELLIS, *Girard, Pa.*

23.—Design for a Steel, Pratt Truss, Camel Back, Railroad Bridge, with a Secondary System.

PAUL COOK NUGENT, *Salem, Va.*

24.—Design for a Double Track Wrought Iron Triangular Truss, Deck Railroad Bridge, Span 108 feet.

GEORGE CLIFFORD PLUMMER, *Philadelphia Pa.*

25.—Design for a Single Track, Lattice, Deck Railroad Bridge, Span 77 feet.

DAN RICE, JR., *Troy, N. Y.*

26.—Design for a Through, Pratt Truss, Pin Connected, Highway Bridge, Span 120 feet.

CHARLES HERMAN RUGGLES, *San Francisco, Cal.*

27.—Design for a System of Sewers for a City of 50,000 Inhabitants.

FREDERICK ALFRED SABBATON, *Troy, N. Y.*

28.—Design for a Single Track, Pratt Truss, Through Railroad Bridge, Span 180 feet.

CHARLES GEORGE SCHADE, *Pittsburg, Pa.*

29.—Design for a Pin-Connected, Camel Back Truss. Railroad Bridge, with a Secondary System ; span, 400 feet.

WILLIAM CALVIN HOOVER SLAGLE, *Philadelphia, Pa.*

30.—Design for a Gravity System of Water Works for a City of 10,000 Inhabitants.

HARMON MOWRY SMITH, *Mechanicville, N. Y.*

31.—Design for the Steel Skeleton of a Building 75 feet x 125 feet, 11 Stories High.

ARNOLD HENRY SUTERMEISTER *Kansas City, Mo.*

32.—Design for a Fink Roof Truss, Span 70 feet, Rise 23 feet.

ARTHUR WELLINGTON THOMPSON, *Ottawa, Canada.*

33.—Design for a System of Sewers for a City of 20,000 Inhabitants.

WILLIAM MCGEHEE WALLACE, *Wallacetown, Va.*

34.—Design for the Blooming Mill of a Steel Rail Plant, Capacity 1,000 tons per day.

CHARLES WORTHINGTON, *Glyndon, Md.*

HONORARY DEGREES CONFERRED.

At the Annual Commencement, June, 1882, the Honorary Degree of Civil Engineer was conferred upon CHARLES H. FISHER, Chief Engineer of the New York Central & Hudson River Railroad, formerly a student at the Institute, in recognition of his successful and honorable professional service during a period of nearly thirty years.

The Honorary Degree of Civil Engineer was at the same time conferred upon LUIZ DA R. DIAS, Jr., T. E., of the Class of 1860, for distinguished professional services in Brazil.

At the Annual Commencement, June, 1884, the Degree of Civil Engineer was conferred upon WILLIAM B. COGSWELL, of Syracuse, N. Y., of the Class of 1852, in consideration of successful and distinguished public service during a period of thirty years.

The Degree of Doctor of Philosophy was at the same time conferred upon JAMES C. BOOTH, Director of the U. S. Mint at Philadelphia, a graduate of the Institute.

MODE OF INSTRUCTION.

The mode of instruction adopted by the Institute has been carefully perfected by the aid of the accumulated experience of seventy years of successful operation. It is believed to be well adapted to secure, with the least expenditure of time and work, that high grade of scholarship which is justly esteemed so indispensable to the successful engineer and the practical scientist.

Lectures, with full illustrations, are given on most of the experimental, practical and technical courses; and these are written out by the students in their lecture-books, and carefully corrected by the instructors. In the other courses text-books are used in the usual manner. The practical exercises, consisting of geometrical, topographical and free-hand drawing, field practice in the several departments of engineering, laboratory work, astronomical observations, magnetic and electrical measurements, tests of materials used in construction, hydraulic measurements, tests of steam engines and boilers—including pumping engines, excursions in connection with the courses in geology, botany, metallurgy, etc., and the inspection and design of machines and structures, are regarded as essential parts of the course of instruction, and therefore receive that attention which their importance demands.

The graduates of the Institute are successful Mechanical, Electrical, Hydraulic, Mining, Sanitary, Topograpical, Railroad and Bridge Engineers. A careful examination of the Register of the Graduates is respectfully invited as evidence that the course of instruction is theoretically and practically efficient.

COURSES OF INSTRUCTION.

COURSE IN CIVIL ENGINEERING.

The course of instruction in Civil Engineering set forth in the following programme is now the principal course of the Institute. Most of the regular members of the Institute pursue this course, and the degree conferred is that of Civil Engineer.

It should be stated, perhaps, that Civil Engineering is understood to include Mechanical or Dynamical Engineering, Road Engineering, Bridge Engineering, Hydraulic Engineering, Steam Engineering, Electrical Engineering, Mining Engineering and Sanitary Engineering.

This course of study is comprehensive and practical, and although it has been arranged expressly for students of Civil Engineering, yet it is believed to be well adapted to the wants of others who are desirous to receive the thorough discipline furnished by the careful study of the mathematical, physical and natural sciences.

Any person of the requisite age, having good abilities, studious habits, and a thorough preparation, can easily complete the course, in a satisfactory manner, in four years; and a graduate of a college, by completing the first two years' work in one year, usually in three years. No person can be admitted as a candidate for the degree after the beginning of the fourth year.

Formerly, courses of instruction were given in several other kindred subjects; but it became necessary a few years ago to discontinue these courses, in order to concentrate the entire work of the Institute upon the course in Civil Engineering alone. In consequence of these changes and other important improvements the Institute is now able to offer students of Civil Engineering very superior facilities for the study of that subject; much greater even than those it ever possessed before.

By reference to the programme of the course of study it will be seen that the wants of students of Mechanical and Electrical Engineering have been considered and well provided for, and that, with the supplemental course in Assaying, recently introduced, together with proposed special extensions of the course, the wants of the future Mining Engineer will also be reasonably well supplied.

The studies of the course are designed to secure to all the graduates a professional preparation, at once thorough and practical, for the following specialties of engineering practice:

The location, construction and superintendence of public works, as railways, canals, water works, sewerage systems, etc.; the design, construction and management of mills, iron works, steel works, chemical works and pneumatic works; the design and construction of roofs, arch bridges, girder bridges and suspension bridges; the survey and superintendence of mines; the design, construction and use of wind motors, hydraulic motors, air engines and the various kinds of steam engines; the design, construction and use of machines in general, and the determination of their efficiency; the survey of rivers, lakes and harbors, and the direction of their improvements; the determination of latitude, longitude, time, and the meridian in geographical explorations, or for other purposes, together with the projection of maps; the selection

and test of materials used in construction, and the construction of the various kinds of geometrical and topographical drawings.

COURSE IN NATURAL SCIENCE.

At the beginning of the Scholastic Year, 1885-6, it was decided to give a modified course, leading to the degree of Bachelor of Science. This course covers a period of four years, and during the first two years is identical with the course in Civil Engineering. During the last two years, however, the course in Natural Science embraces less of higher Mathematical subjects and more of Natural History, Chemistry and Geology.

COURSE IN RAILROAD BLOCK AND INTERLOCKING SIGNALS.

A special lecture course on Railroad Signals has been added to the curriculum, and is now given to the members of Division A. The various systems of interlocking are discussed and illustrated by diagrams and models, and different arrangements of tracks are provided with signals. Visits to and examinations of both electrical and mechanical block signals, in the immediate vicinity, are also made.

SUMMER COURSE IN CHEMISTRY AND ASSAYING.

During the summer vacation, six weeks' courses in Qualitative and Quantitative Analysis and Assaying are given to such graduates and students of the Institute, and to such other

persons, properly qualified, as may desire to take them: provided, classes can be formed of not less than twelve members.

These courses will begin in June of each year on the Monday following the Annual Commencement. The Treasurer's ticket for the same will be $35. Each student will furnish his own set of weights. A deposit of $10 will be required to cover breakage.

SUMMER COURSE
IN SURVEYING AND RAILROAD ENGINEERING.

In 1894, and thereafter, there will be given to some of the students in the course in Civil Engineering, for six days each week between June 1st and July 1st, field work in Surveying and Railroad Engineering. Any other properly qualified person may take this course upon the payment of $35.

SPECIAL WINTER COURSE
IN HIGHWAY ENGINEERING AND ROAD CONSTRUCTION.

Beside the instruction in Road Engineering, which includes the construction and maintenance of both country roads and city pavements, and which forms a part of the regular course in Civil Engineering, there is given, each year, a special series of ten lectures on Highways. These lectures are not intended for the benefit of professionally educated engineers but are designed for those who, without an advanced technical training, are engaged or interested in the construction and maintenance of country roads. The lectures begin in February on the first Monday after the opening of the Summer Session, and last for two weeks. The fee for the course is $15.

COURSE IN CIVIL ENGINEERING.

FOUR YEARS.

DIVISION D.—FIRST YEAR.

MATHEMATICS.—Wells' University algebra; Wentworth's text book of geometry; Wood's trigonometry, analytical, plane and spherical.

DESCRIPTIVE GEOMETRY.—Warren's elementary plane problems—*plates;* Warren's elementary projections—*theory and plates.*

STEREOTOMY.—Warren's drafting instruments and operations—*theory and plates.*

PHYSICS.—Sheldon's Revision of Olmstead's College Philosophy, through acoustics.

FRENCH LANGUAGE.—Fasquelle's French grammar.

ENGLISH LANGUAGE.—Clark's Practical Rhetoric.

GEODESY.—Construction and use of the chain, tape and compass—*theory and practice.* Johnson's Text Book.

TOPOGRAPHICAL DRAWING.—Elementary drawing; topographical plans.

FREE-HAND DRAWING.—Elementary practice.

THESIS.—A Thesis, prepared during the summer vacation, on some subject approved by the Faculty, will be required of each member of Division D.

DIVISION C.—SECOND YEAR.

MATHEMATICS.—Analytical geometry.

DESCRIPTIVE GEOMETRY.—General orthograpic projections—*theory and plates.*

STEREOTOMY.—Bridge drawing; shades and shadows—*theory and plates;* linear perspective—*theory and plates.*

CHEMISTRY.—Inorganic chemistry, lectures and interrogations; chemical problems.

PHYSICS.—Heat; optics; laboratory work.

NATURAL HISTORY.—Botany.

FRENCH LANGUAGE.—Syntax of grammar, with exercises and writing from dictation; translation of scientific works; epistolary correspondence and conversation.

ENGLISH LANGUAGE.—Logic, deductive and inductive.

GEODESY.—The construction and use of modern field and office instruments—*theory and practice;* the methods of making land, topographic, hydrographic, city and mine surveys—*theory and practice.*

TOPOGRAPHICAL DRAWING.—Map of farm survey; colored topography—*plates.*

FREE-HAND DRAWING.—Sketches of tools, of the components of machines, of bridges and other structures.

THESIS.—A Thesis, prepared during the summer vacation, on some subject approved by the Faculty, will be required of each member of Division C.

DIVISION B.—THIRD YEAR.

MATHEMATICS.—Differential calculus; integral calculus.

ASTRONOMY.—Descriptive astronomy.

RATIONAL MECHANICS.—Mechanics of solids; mechanics of fluids; mechanical problems.

STEREOTOMY.—Machine construction and drawing—*theory and plates.*

PHYSICS.—Electricity and magnetism.

NATURAL HISTORY.—Mineralogy and petrography; descriptive geology; technical geology; geological and mineralogical excursion.

CHEMISTRY.—Qualitative analysis; blow-pipe analysis; determinative mineralogy; practical chemistry.

GEODESY.—Geodetic surveying—*theory and practice;* reconnaissance, preliminary location and construction surveys for roads and railroads—*theory and practice.*

ROAD ENGINEERING.—Railroad structures, Common roads and city streets.

TOPOGRAPHICAL DRAWING.—Contour map; map of hydographical survey.

THESIS.—A Thesis, prepared during the summer vacation, on some subject approved by the Faculty, will be required of each member of Division B.

DIVISION A.—FOURTH YEAR.

ASTRONOMY.—Spherical and Practical Astronomy; conversion of time; adjustment and use of portable instruments; correction of observations; problems of finding time, longitude, latitude and azimuth; observatory and field practice; reduction of observations; the method of least squares with applications to practical astronomy and geodesy.

PHYSICS.—Thermodynamics; electrodynamics; laboratory work.

TECHNICAL MECHANICS.—Mechanics of solids; mechanics of fluids; analytical and graphical determination of stresses.

MATERIALS OF CONSTRUCTION.—Strength of materials—*metals,—building stones,—cements,—timber;* tests and inspection of materials; manufacture and use of materials—*metals,—cements,—concrete,—masonry,—timber.*

STRUCTURES.—Equilibrium and stability of structures—*dams,—chimneys,—buttresses,—abutments,—retaining walls,—piers,—arches,—roofs,—girder bridges,—suspension bridges,—cantilever bridges,—draw bridges;* specifications for masonry constructions and for bridges; foundations of structures; designs for and reviews of special structures.

MACHINES.—General theory of machines; description of machines; theory of prime movers—*steam engines,—air engines,—electro-magnetic engines,—hydraulic motors,—wind motors;* construction and location of machines; measurement of power of machines; designs for and reviews of special machines.

HYDRAULICS.—Flow of water in *pipes,—mains,—ditches,—canals,—sewers,—streams,—rivers;* measurement of the flow of water by *orifices,—weirs,—current meters;* measurement, estimates of, and cost of water power; hydraulic plants; waterworks; reservoirs; sewerage systems; foundations under water.

AERODYNAMICS.—Flow of air in *pipes,—fans,—blowing engines;* anemometers; wind pressure; wind motors.

STEREOTOMY.—Stone cutting—*theory and plates.*

ROAD ENGINEERING.—Economic theory of railroad location.

THE STEAM ENGINE.—Lectures; indicating and estimating the power of steam engines; duty tests of water-works pumping machinery; compound and multiple-expansion engines.

METALLURGY.—General metallurgy; metallurgy of iron and steel; metallurgical excursion.

TOPOGRAPHICAL DRAWING.—Plans, profiles, and sections of railroad surveys.

LAW.—Law of contracts.

THESIS.—Preparation of graduating Thesis.

NOTE.—During the scholastic year 1893–4 and, until further notice, thereafter the course in Civil Engineering will be changed as follows: Differential Calculus will be given during the second term of Division C, and Divisions B and C will conclude their examinations in the work of the summer session on or before May 31st. These two classes will be engaged in field work, six days each week for ten hours each day, between June 1st and July 1st. The winter session will begin on the same date for all the classes.

COURSE IN NATURAL SCIENCE.

The studies of the Course in Natural Science are identical with those in Civil Engineering for the first two years. The studies of the last two years, however, embrace more natural history, chemistry and geology, and less higher mathematics.

DIVISION B.—THIRD YEAR.

MATHEMATICS.—Calculus (shorter course).

ASTRONOMY.—Descriptive astronomy.

PHYSICS.—Electricity and magnetism.

NATURAL HISTORY.—Mineralogy, petrography and zoology.

CHEMISTRY.—Introductory chemical practice; blowpipe analysis.

CHEMISTRY.—Qualitative analysis; blowpipe analysis; determinative mineralogy; experiments and recitations in organic chemistry; elementary quantitative analysis.

NATURAL HISTORY.—Geology; lithology; excursions.

HISTOLOGY.—Use of the microscope, with examination of animal and vegetable tissue.

DRAWING.—Contour map.

THESIS.—A Thesis, prepared during the summer vacation, on some subject approved by the Faculty, will be required of each member of Division B.

DIVISION A.—FOURTH YEAR.

Chemistry.—Quantitative analysis; volumetric and gravimetric analysis.

Metallurgy.—General Metallurgy; iron metallurgy.

Natural History.—Physical geography.

Chemistry.—Quantitative analysis; analysis of commercial and industrial products; technical chemistry.

Natural History.—Palæontology; determinative mineralogy; petrography; excursions.

Physics.—Laboratory work.

Law of Contracts.

Preparation of Graduating Thesis.

THESES.

SUMMER THESES.

During the summer vacations, immediately following the work of Divisions D, C and B, each student will be required to prepare a Thesis on some subject approved by the Faculty. The subjects will be arranged to suit the capacity of the students and will include generally original descriptions of existing structures, machines, plants, systems or processes relating to some branch of engineering. Where possible, illustrative drawings or models will be required. These Theses must be delivered to the Director before the beginning of the Scholastic Year, and their acceptance by the Faculty is necessary before the student can be advanced in full standing from a lower to a higher class.

GRADUATING THESES.

In addition to the other examinations of the summer session, each candidate for a degree is required to prepare and defend a Thesis on some subject of immediate relation to the studies of his course. The Thesis of a candidate for a degree is required to be either a review of, or a design for a machine, structure, plant, system, or process, belonging to a department of scientific or practical technics. It must be fully elaborated, in accordance with the instructions given for this purpose, and accompanied by the necessary illustrative or working drawings, models, or other preparations requisite for the proper elucidation of the subject of the Thesis, and adaptation, if a design, to practical use.

The Theses, with the accompanying drawings, models, etc., are required to be deposited in the library of the Institute, for permanent preservation.

RECORDS AND EXAMINATIONS.

SESSION RECORDS.

Daily records of the various exercises of the Institute classes are kept by the officers of instruction in a form adapted to permanent preservation. These are returnable weekly to the Director, and give full information with regard to each student's position, both as respects observed characteristics of general conduct, and the knowledge displayed by him of the current subjects of study.

SEMI-ANNUAL EXAMINATIONS.

Public examinations of all the classes of the Institute are held immediately preceding the close of each semi annual session. These examinations, which are partly oral and in part written, are continued simultaneously over a period of eight days, and are made to cover the entire field of study for the session.

RESULTS OF THE EXAMINATIONS.

Full records of the examinations are made, from the results of which the necessary data are obtained for determining each student's qualifications for being considered ***passed or deficient***, as the case may require, in the studies of the session.

No change in class membership, in passing from the winter to the summer session, necessarily happens from these alternatives in respect to the results of the winter examination, although any student seriously conditioned in the work of the first term of Division A will be permitted to go on with his class only with the understanding that he is not a candidate for a degree. At the summer examination, however, each student is required to be passed, not only in the various studies of this session, but in all those studies of the previous session, for which a record of deficiency has been entered against him, *in order to satisfy the essential requisite for translation from a lower to a higher class*, in passing from the studies of one year to those of the succeeding year. Students who may be conditioned at the end of a year, have an opportunity to remove their conditions at the beginning of the next year, in September; failing to remove their conditions at that time, they will be allowed to continue their full institute course, for a degree, only with the next lower division; except on the recommendation of the Director, and with the approval of the Prudential Committee of the Board of Trustees.

TESTIMONIALS.

DEGREES.

The Institute will confer the Degree of Civil Engineer or of Bachelor of Science upon all its future graduates who shall have completed the courses leading to such degrees, or to either of them.

CONDITIONS OF CONFERRING THE DEGREE.

1.—The candidate must have sustained a satisfactory examination in all of the studies of the course in Civil Engineering, or in that leading to the degree of Bachelor of Science.

2.—His Thesis must have been approved by the Faculty.

3.—He must have paid all dues to the Institute.

4.—He must be of good moral character.

SPECIAL CERTIFICATE.

A Special Certificate may be issued by the Faculty to any candidate who shall have sustained a satisfactory examination in the full course of studies through Division B.

ADMISSION TO THE INSTITUTE.

APPLICATIONS FOR ADMISSION.—All applications for admission to the Institute, or for special information concerning it, should be addressed to the DIRECTOR OF THE INSTITUTE. Copies of the Annual Register may be obtained by applying to the DIRECTOR.

TIME OF ADMISSION.—The proper time—that is the *best* time—for entering the classes of the institute, is at the beginning of the scholastic year in September. Students are admitted, however, at the opening of the summer session, or at any other time in the year; but if not fully prepared on the previous work of the class, they are then obliged to make up their deficiencies by *extra efforts* during the session.

EXAMINATIONS FOR ADMISSION.—1. *Examinations in Troy.* The regular examinations for admission are held in the main building of the Institute in June and September on the dates given in the Calendar on page 5. 2. *Examinations in Other Places.* In order to accommodate applicants who not live in the vicinity of Troy, and reduce their expenses, arrangements have been made with various schools in different parts of the country by which such applicants may be examined for entrance to *Division D* without taking the regular entrance examinations at the Institute. Students desiring to avail themselves of this arrangement should apply first to the Director of the Institute, after which they will be referred to the Principal of one of the following colleges, schools or academies:
Alabama: Mobile, Towle's Institute.

California: Belmont, Belmont School; Los Angeles, Belmont Hall; San Rafael, San Rafael School.

Colorado: Denver, College of St. John the Evangelist.

Connecticut: Norwalk, Military Institute.

District of Columbia: Washington, Emerson Institute, Friends' Select School.

Georgia: Atlanta, Georgia Military Institute; Columbus, High School.

Illinois: Chicago, University School; Galesburg, Knox College; Peoria, High School; Rockford, High School; Springfield, High School.

Indiana: Fort Wayne, High School; Indianapolis, High School.

Iowa: Decorah, Decorah Institute; Oskaloosa, High School.

Kentucky: Cynthiana, Smith's Classical Institute; Louisville, Male High School.

Maryland: Baltimore, Marston's University School, Wolfe's University School.

Massachusetts: Andover, Phillips Academy; Easthampton, Williston Seminary; Groton, Groton School; Marion, Tabor Academy; Springfield, High School; Worcester, Highland Military Academy.

Michigan: Orchard Lake, Michigan Military Academy.

Minnesota: Faribault, Shattuck School.

Missouri: Kansas City, High School; St. Louis, Normal and High School.

Montana: Butte City, High School.

New Hampshire: Concord, St. Paul's School; Exeter, Phillips Exeter Academy.

New Jersey: Jersey City, High School; Montclair, Public School; Newark, High School; Paterson, High School.

New York: Binghamton, High School; Buffalo, High School; Corning, Free Academy; Elmira, Free Academy; Fairfield, Fairfield Seminary; Lockport, High School;

Manlius, St. John's Military School; Newburgh, Free Academy; New York, The Barnard School, 119 West 125th Street; The Cutler School, 20 West 43d Street; Plattsburgh, High School; Poughkeepsie, Riverview Military Academy; Sing Sing, St. John's School; Syracuse, High School; Rochester, Hale's Classical and Scientific School; Troy, Troy Academy; Waterloo, Academy and Union School.

North Carolina: Asheville, Bingham School.

Ohio: Akron, High School; Cincinnati, Franklin School, Technical School.

Oregon: Portland, Bishop Scott Academy.

Pennsylvania: Bustleton, St. Luke's School; Erie, High School; Germantown, Germantown Academy; Ogontz, Cheltenham Academy; Pittsburgh, East Liberty Academy, Shady Side Academy; Pottstown, The Hill School; Scranton, The School of the Lackawanna.

Rhode Island: Newport, Rogers High School; Providence, High School.

Tennessee: Chattanooga, Mountain City Business College.

Texas: San Antonio, San Antonio Academy.

Utah: Provo City, Brigham Young Academy.

Virginia: Norfolk, Norfolk Academy.

Wisconsin: Fond du Lac, High School; Menomonie, Stout Manual Training School; Milwaukee, High School; Racine, High School.

In case the applicant does not reside within a reasonable distance of one of the schools given in the list above, he may apply for further information to the Director, at the same time giving in detail the schools at which he has been prepared, and the names of their Principals.

3. *Admission to Division D without Examination.* Graduates of colleges of recognized standing are permit-

ted to enter the Institute without examination, as are also those holding Regents' Certificates, of the State of New York, in the subjects required for admission

It is considered particularly desirable and advisable that candidates for admission should take their examinations in June, instead of in September, so that in case they require time for further preparation, in any of the subjects, they may use the summer vacation for this purpose. All persons desiring to enter the Institute at the beginning of any academic year are requested to advise the Director to that effect at as early a date as may be practicable.

TERMS OF ADMISSION.

To Division D.—Candidates for Admission to Division D. are thoroughly examined in the following subjects:

1. *Arithmetic.*—Prime and composite numbers; greatest common divisor and least common multiple; ratio and proportion; common and decimal fractions; percentage; simple interest; compound numbers; square root; cube root; metric system. As much as is contained in the more advanced text-books.
2. *Plane Geometry.*—As much as is contained in the first five books of Wentworth's, or Chauvenets', or Well's Geometry, or in the first six books of Newcomb's Geometry.
3. *Algebra.*—Fundamental principles; factoring; greatest common divisor; least common multiple; fractions; simple equations, with one or more unknown quantities; involution and evolution of monomials and polynomials; the theory of exponents; radicals, including involution and evolution and the solution of equations containing them; quadratic equations. As much

of the above subjects as is included in the higher treatises of Wells, Wentworth or Newcomb.

4. *Geography.*—The examination will include more particularly the geography of the United States and Europe. A knowledge of as much of this subject as is contained in the ordinary school text-books will be sufficient.

5. *English Language.*—The use of capital letters and punctuation marks; parts of speech, their classes and their properties or modifications; declension of nouns and pronouns, particularly the formation of plurals and possessives; conjugation of verbs; principal parts of verbs; analysis of sentences, and the correction of sentences grammatically incorrect, with reasons. An essay of one hundred to one hundred and fifty words will be required to exemplify the proper use of marks and words. The subject will be given during the examination. There will also be an exercise in spelling from dictation, ordinary words, such as those commonly found in the editorials of the best newspapers, being given.

To Advanced Standing.—Candidates for advanced standing are examined in the preparatory studies of the division which they propose to enter; but no candidate can be admitted to any advanced class, *in full standing*, until he shall have been passed in all of the work of the classes below such advanced class.

Students who are sufficiently advanced beyond the requirements for admission, may, under conditions, effect a saving of one year; in other words, they may complete the regular course in *three* instead of four years. In order to accomplish this the student must pass examinations in a number of subjects—partly in the work of Division D, and partly in the work of Division C—to constitute an *equivalent* to the work of the first year. These examinations having been passed, sat-

isfactorily, *before admission*, the candidate will be permitted, as a member of Division D, to undertake the completion of the first two years' work in one year. Candidates cannot pass in *all* of the work of Division D—and thus enter Division C, —because very much of the work of the first year is peculiar to, and must be done at, the Institute.

While it is desired that candidates shall have full credit for any advanced work they may have done, they are not advised to undertake a shortening of the period required for the completion of the regular course. Such an undertaking is beset by difficulties growing out of conflicting work in the two classes; and the results are rarely entirely satisfactory, either to the student or to the Faculty.

All candidates for advanced standing, except those permitted to enter without examination, as specified in paragraph 3 of *Examinations for Admission*, must pass the entrance examinations before being passed in advanced subjects.

To Special Courses.—For admission to special courses the applicant must have attained the age of seventeen years and must have the requisite preparation for the study of the subject selected.

College graduates, teachers, and persons engaged in business pertaining to the mechanic arts, who have not the time to spare for the full course leading to a degree, but who desire to obtain instruction in special branches of scientific knowledge, will be afforded all possible opportunity to do so. Both the laboratories and class rooms of the Institute will be open for the accommodation of such persons under special arrangements with the Director. Correspondence on this subject should, as far as possible, be concluded before the opening of either one or the other of the two Institute terms. Examinations for admission will, in such cases, be omitted when the Faculty is otherwise satisfied that the applicant is sufficiently prepared.

Age.—No one can be admitted to Division D, till he has completed his sixteenth year, nor to an advanced standing without a corresponding increase of age.

Testimonials.—Satisfactory testimonials of good moral character are in all cases required; and those who are admitted from colleges, or other scientific schools, must present certificates of dismission in good standing.

EXPENSES.

Institute Fees.—In the general course, the fees for instruction, use of astronomical and field instruments, use of consumable materials, chemicals, etc., are $100 for each semi-annual session; and in the special courses, they are in the same proportion for the time of study. These fees must be paid to the Treasurer, *in advance*, for each session. A deposit of $15 will be required at the beginning of laboratory work to cover breakage of apparatus. The graduation fee, including the diploma, is $8.00, and must be paid to the Treasurer at least two weeks before the time of graduation.

Living Expenses.—Members of the Institute find board and lodgings with respectable private families in the city. The price asked for suitable board and furnished lodgings vary, at the present time, from $6.00 to $10.00 per week. The total expense of board, furnished lodgings, laundry, fires, lights, etc., varies from about $300 to $500 for the scholastic year. Necessity has sometimes compelled students to live at less expense than the rates given above. Such economy, however, is not recommended by the direction of the Institute, except in extreme cases.

Drawing Instruments.—The instruments used at the Institute are the Swiss—which are preferred both for their general excellence and moderate cost. These instruments, with the materials for geometrical and topographical drawing, cost from $15 to $35. The student is advised to defer his purchases of drawing instruments and materials until he comes to the Institute, when he will have the advantage of procuring them under the direction of the professors of drawing.

Text-Books and Stationery.—The text-books, etc., used at the Institute, may be purchased at the city bookstores. The student is advised, however, to bring such scientific books as he may possess.

SESSIONS AND VACATIONS.

The scholastic year is divided into two sessions of nineteen weeks each. The first, or winter, session is followed by a vacation of one week; the second, or summer, session by a vacation of thirteen weeks. (See calendar, page 5.)

Students are particularly requested to be punctual in their attendance at the opening of the session, as indicated in the calendar.

BUILDINGS AND APPARATUS.

INSTITUTE BUILDINGS.

Main Building.—The Main Building, 115 feet in length, 50 feet in width, and four stories in height, contains full suites of recitation, lecture, and drawing rooms, the cabinet of natural history, the library, and the quarters for the janitor. The rooms are spacious, conveniently arranged, and well lighted and ventilated.

Winslow Laboratory.—The Winslow Laboratory, 70 feet in length, 40 in width, and three stories in height, was named in honor of the late John F. Winslow, Esq., of Poughkeepsie, N. Y., a former President of the Institute. The first story contains the metallurgical laboratory. The second story contains the chemical laboratory, and the third floor the lecture, recitation and apparatus rooms, which are fitted up in the most approved manner for complete courses in general and analytical chemistry.

William Proudfit Observatory.—The astronomical observatory was erected for the Institute by the late Ebenezer Proudfit, Esq., of Troy, as a memorial of his deceased son, formerly a member of the Institute. It occupies an elevated site and commands a good horizon, and yet is within a convenient distance of the other buildings. It consists of a central part 30 feet square, with north, south and east wings, the total

length being 76 feet, and breath 60 feet. The central part is two stories in height, surmounted by a dome 29 feet in diameter. The east wing contains piers for the meridian instruments, and the other wings are used for computing and clock rooms, and library.

Gymnasium.—This structure, about 44 by 80 feet, is a handsome building, located on the south side of Broadway, west of the main building. It is furnished with the best patterns of Dr. Sargent's gymnastic apparatus, racing track, bowling alleys, sponge and shower baths, dressing rooms, etc.

Alumni Building.—The Alumni Building, situated on Second street, near State street, was presented to the Institute by its graduates. It is a fire-proof structure, containing the geological and palæontological collection presented by James Hall, A. M., LL. D., New York State Geologist and Emeritus Professor of Geology in the Institute, of the class of 1832. It also contains a library, lecture-room, and office for the transaction of general Institute business.

Ranken House.—This building has been fitted up for the use of the department of mechanics. It is provided with an Olsen Testing Machine, upon which is conducted the various tests of the physical properties of materials used in construction.

CABINET OF NATURAL HISTORY, ETC.

Collection of Minerals.—The "Henry B. Nason Collection" of minerals contains nearly 5,000 specimens, arranged in several divisions to illustrate their structural, physical, and chemical properties.

Geological Collection.—The geological collection is divided into several sections illustrating petrographical and phenomenal geology, the geology of some peculiar localities, and palæontology.

A valuable collection of rocks, illustrating the petrography of the State of New York, has been recently added to this department by Joseph Mullin, Jr., C. E., of Watertown, N. Y., as a memorial of his brother, Anthony T. E. Mullin, C. E., late Passed Assistant Engineer of the U. S. Navy.

Collection of Shells.—The collection of shells contains nearly 10,000 specimens, and was made and arranged by the late Henry Rousseau, Esq., of Lansingburgh, N. Y. Many of the specimens are very rare, and the completeness of several genera is quite unique. A number of very handsome specimens of coral, and about 500 specimens of shells, were added to this collection by Mrs. George B. Warren.

In addition to the foregoing, a collection of minerals and rocks, numbering over 3,000 specimens, is placed in the mineralogical lecture-room, for the constant use of the students in the lectures and practical exercises.

Herbaria.—The Herbaria contain about 5,000 specimens of American and European plants, and nearly 300 specimens of wood from all parts of the world.

Collection of Birds.—The collection of birds, numbering 140 specimens, with the Indian relics and curiosities, was presented by the Troy Lyceum of Natural History. Another collection of very rare birds from all parts of the world, numbering 220 specimens, and made by the late George B. Warren, Esq., was presented by Mrs Warren as a memorial of her husband. During the year 1884 the collection was considerably increased by gifts from John Hobart Warren, Esq.

Metallurgical Collection.—The metallurgical collection contains a very large number of metals and products from their ores. It is especially rich in the different varieties of

iron, steel, and slags, from works in the vicinity. Copper, lead, zinc, silver and gold are also well represented.

Chemical Cabinet.—The chemical cabinet contains a large number of chemical elements and their compounds; also specimens illustrating the manufacture of glass, earthenware, porcelain, gunpowder, illuminating gas, coal tar products, and a large collection of specimens of common salt, native, and manufactured from American and European brines. A large number of models, charts, maps, engravings and photographs adds much to the completeness of these collections.

LIBRARY.

The Library contains many valuable scientific works. It has recently been increased by a valuable collection of American and foreign scientific periodicals, and during the year 1882 was enriched by the bequest of the very valuable professional library of the late Alexander L. Holley.

The Library is accessible to all members of the Institute.

APPARATUS, INSTRUMENTS AND MODELS.

The collections of apparatus and instruments in the departments of astronomy, geodesy, chemistry and mechanics are quite complete and in good order. Additions are being made every year to these collections, which already are of great value and assistance to the student.

THE MACDONALD PRIZE.

This is a prize founded by Mr. Charles Macdonald, C. E., of the city of New York, and a graduate of the Rensselaer Polytechnic Institute, in the class of 1857. The prize consists of the net annual income from two thousand dollars, and is to be awarded to that student of Division A, in each year, who shall, on graduating, present the best thesis involving a design for an engineering work, or an investigation of a process or natural product, or of a natural law of especial interest to Civil Engineers. The Committee of Award is to be selected by or under the direction of the Regents of the University, or, in case a committee should not be named by them, then by the Prudential Committee of the Institute.

The prize is to be awarded at the Commencement following that at which the competitor graduates.

REGULATIONS FOR THE MACDONALD PRIZE COMPETITIONS.

1. Any student of the Rensselaer Polytechnic Institute may submit to the Director his graduation thesis for the Macdonald Prize Competition at any time prior to the day of graduation.

2. Each thesis so submitted shall be neatly and legibly written, or type written.

RÉPUBLIQUE FRANÇAISE
EXPOSITION UNIVERSELLE DE 1889
GRAND PRIX
A Rensselaer polytechnic Institute, Troy (N.-Y.)
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EUROPE RENANTES

GRAND PRIZE AWARDED

TO THE

RENSSELAER POLYTECHNIC INSTITUTE,

AT THE

UNIVERSAL EXPOSITION OF THE FRENCH REPUBLIC,

1889.

3. Each thesis shall, within three days after the graduation of the author, be delivered by the Director to the President, accompanied by a schedule referring to it by a number, stating the name of the author and whether in the judgment of the Director it involves a design for an engineering work, or an investigation of a process or natural product, or of a natural law of especial interest to Civil Engineers, and is worthy of being included in a competition; and if not, his reasons for such conclusions.

4. The decision of the Committee to award the prize shall be publicly announced as soon after the opening of the Fall Term as practicable, and the prize, if any, shall be delivered to the successful competitor at the next succeeding Commencement.

5. In case no thesis submitted is deemed worthy of distinction, an award of the prize shall not be made, but otherwise it shall be awarded for the best thesis of the year.

MACDONALD PRIZE AWARD.

1891.

STACEY ELLIS DENNY, C. E., - - - - - - Huntingdon, Pa.

Subject—Design for a system of Water Works for a city of 35,000 inhabitants, using Triple Expansion Vertical Engines.

1892.

ELMER JAMES BUCKNELL, - - - - - - - - Decorah, Ia.

Subject—The Hardening of Steel and its Effect upon the Ultimate Resistance.

APPENDIX.

PAST PRESIDENTS

OF THE

ALUMNI ASSOCIATION.

James Hall, '32,	1869–71
Albert R. Fox, '30,	1871–73
Strickland Kneass, '39,	1873–74
William Gurley, '39,	1874–78
John G. Ambler, '33,	1878–79
James P. Wallace, '37,	1879–80
Francis Collingwood, '55,	1880–81
Charles Macdonald, '57,	1881–83
Charles C. Martin, '56,	1883-84
Joseph M. Wilson, '58,	1884–85
Joseph C. Platt, '66,	1885–86
David Reeves, '72,	1886–87
Theodore Voorhees, '69,	1887–88
T. Guilford Smith, '61,	1888–89
Christopher C. Waite, '64,	1889–90
Joseph J. Albright, '68,,	1890–91
Clark Fisher, '58,	1891–92
William B. Cogswell, '51,	1892–

OFFICERS OF THE ALUMNI ASSOCIATION FOR 1892-93.

President—WILLIAM B. COGSWELL, '51.

First Vice-President—ROBERT FORSYTH, '69.

Second Vice-President—FRANK L. FORD, '74.

Third Vice-President—GEORGE BURNHAM, '72.

Secretary—WILLIAM P. MASON, '74.

Treasurer—JAMES H. CALDWELL, '86.

Necrological Secretary—Henry B. NASON.

Directors—WILLIAM H. REEVES, '73. J. FRANKLIN ALDRICH, '77, GEORGE S. DAVISON, '78, TOWNSEND V. CHURCH, '81, LAWRENCE ROY, '91.

GRADUATES OF THE INSTITUTE.

☞GRADUATES ARE REQUESTED TO KEEP THE DIRECTOR ADVISED AS TO THEIR PROFESSIONAL, OR OTHER, OCCUPATIONS AND RESIDENCES.

(r. s.) Denotes Rensselaer School. * Deceased.

CLASS OF 1826.

*STILLMAN E. ARMS, A. B. (r. s.,) M. D., Physician,....*Elizabethtown, N. J*

*ABNER BENEDICT, A. B. (r. s.,) Attorney and Counsellor at Law,..... ....*New York City.*

*ALBERT DANKER, A. B. (r. s.,) Civil Engineer,.....*Troy, N. Y.*

*HEZEKIAH H. EATON, A. B. (r. s.,) late Assistant Professor of Chemistry in the Medical Department of Transylvania University,.. *Lexington, Ky.*

*TIMOTHY DWIGHT EATON, A. B. (r. s.,) late Assistant Professor of Natural History in Rensselaer Polytechnic Institute,.....*Troy, N. Y.*

*EBENEZER EMMONS, A. B. (r. s.,) A. M., M. D., late Professor of Geology and Mineralogy in Williams College, and State Geologist of North Carolina,.....*Williamstown, Mass*

*ADDISON HULBERT, A. B. (r. s.,) Mechanical Engineer, ... *Chatham, N. Y.*

*PHILIP C. W. T. MCMANUS, A. B. (r. s.,) Agriculturist,..*Brunswick, N. Y.*

*WILLIAM S. PELTON, A. B. (r. s.,) M. D., Physician,.....*Ithaca, N. Y.*

*BENNET F. ROOT, A. B. (r. s.,) M. D., Physician,.....*Manchester, Mich.*

CLASS OF 1827.

*JONATHAN CHANDLER, A. B. (r. s.,) M. D., Physician,.....*Bennington, Vt.*

*JOHN J. DAVEY, A. B. (r. s.,) Iron Manufacturer,.... ...*Fair Haven, Vt.*

*FRANCIS G. DREW, A. B. (r. s.,) Agriculturist,... .... *Drewsville, N. H.*

*ASA FITCH, JR., A. B. (r. s.,) M. D., Physician, and New York State Entomologist,.....*Salem, N. Y.*

*George F. Horton, A. B. (r. s.,) M. D., Physician, late President of Pennsylvania State Medical Society,.....*Terrytown, Pa.*
*Samuel C. Jackson A. B. (r. s.) Agriculturist,.....*Galesburg, Ill.*
John C. Keeney, A. B. (r. s.,) Clergyman,.....*Sparta, Ga.*
*Orlin Oatman, A. B. (r. s.,) Merchant,.....*Port Washington, Wis.*
*Edward Sandford, A. B. (r. s.,) Attorney and Counsellor at Law,.....*New York City.*
Charles L. Weston, A. B. (r. s.,) Attorney and Counsellor at Law,.....*Davenport, Iowa.*

CLASS OF 1828.

*Hiram Arnold, A. B. (r. s.,) Merchant, ...*Amsterdam, N. Y.*
*Gardner Bullard, A. B. (r. s.,) Manufacturer, ...*Shrewsbury, Vt.*
*Fay Edgerton, A. B. (r. s.,) late Professor of Chemistry and Natural History in Utica High School,.....*Utica, N. Y.*
*Thomas Emory, Jr., A. B. (r. s.,) Agriculturist,.....*East Shore, Md.*
William G. Henry, A. B. (r. s.,).....150 Fort Street W., *Detroit, Mich.*
Thomas C. Ripley, A. B. (r. s.,) Attorney and Counsellor at Law,.....*Saginaw, Mich.*

CLASS OF 1829.

*John M. Barrows, A. B. (r. s.,) A. M., Clergyman,.....*Olivet, Mich.*
*Cyrus Bryant, A. B. (r. s.,) Agriculturist,.....*Princeton, Ill.*
*Joseph B. Clarke, A. B. (r. s.,) Professor of Natural Science,.....*Cortland Village, N. Y.*
*Daniel O. Comstock, A. B. (r. s.,) Horticulturist,.....*Lockport, N. Y.*
*Miner Gold, A. B. (r. s.,) A. M., Teacher of Natural Science,.....*Enfield, Mass.*
*James S. Horton, A. B. (r. s.,) M. D., Physician,.....*Muscatine, Ia.*
*Douglass Houghton, A. B. (r. s.,) M. D., late State Geologist of Michigan.....*Detroit, Mich.*
*Lysander H. Kingman, A. B. (r. s.,) Chief Justice of Norfork County Court,.....*Norfolk, Va.*
*Jeremiah B. Metcalf, A. B. (r. s.,) Civil Engineer,.....*Sandwich Islands.*
*Alanson J. Prime, A. B. (r. s.,) M. D., Physician,...*White Plains, N. Y.*
*John L. Riddell, A. B. (r. s.,) M. D., Physician and Chemist,.....*New Orleans, La.*

Graduates please see request at page 61.

CLASS OF 1830.

*Rufus B. Bement, A. B. (r. s.,) Clergyman,.....*Ashfield, Mass.*
*Theodore W. Decker, A. B. (r. s.,) Agriculturist and Manufacturer,.....
.....*Blooming Grove, N. Y.*
*Albert R. Fox, A. B. (r. s.,) Glass Manufacturer,.....*Sand Lake, N. Y.*
*Lemuel G. Olmstead, A. B. (r. s.,) A. M., LL. D., Archæologist,.....
.....*Moreau Station, N. Y.*
*George K. Osborn, A. B. (r. s.,) Attorney and Counsellor at Law,.....
.....*Troy, N. Y.*
*Samuel J. Pike, A. B. (r. s.,) Manufacturing Chemist,.....
..... *North Marlboro, Mass.*
*Merritt Platt, A. B. (r. s.,) late Superintendent of Milford High School,
.....*Milford, Conn.*
*Rush Sherrill, A. B. (r. s.,) Merchant,.....
.....343 West Twentieth Street, *New York City.*
*P. Eugene Stevenson, A. B. (r. s.,) A. M., late Principal of Passaic Classi, cal Institute,.....*Paterson, N. J.*
*Joseph Thomas, A. B. (r. s.,) A. M., M. D., LL. D., late Professor of English Literature in Swarthmore College, ... *Philadelphia, Pa.*
*William Wilkinson, A. B. (r. s.,) Attorney and Counsellor at Law,.....
.....*Poughkeepsie, N. Y.*

CLASS OF 1831.

*James C. Booth, Ph. D., LL. D., U. S. Mint, ...*Philadelphia, Pa.*
*James C. Cobb, A. B. (r. s.,) M. D., Physician,.....*San José, Cal.*
*Edward Devol, A. B. (r. s.,) Merchant,.....*Schaghticoke, N. Y.*
Augustus G. Hill, A. B. (r. s.,) Teacher of Natural Science,.....
..... *Worcester, N. Y.*
*Abram Sager, A. B. (r. s.,) A. M., M. D., Emeritus Professor of Obstetrics, etc., in the University of Michigan,.....*Ann Arbor, Mich.*
Abel Storrs, A. B. (r. s.,) Agriculturist,.....*Lebanon, N. H.*

CLASS OF 1832.

William H. Boyd, A. B. (r. s.,) Merchant,.....*Monroe, Mich.*
James Hall, A. B. (r. s.,) LL. D., New York State Geologist, and Emeritus Professor of Theoretical, Practical, and Mining Geology in. Rensselaer Polytechnic Institute,.....*Albany, N. Y.*
*John H. Philip, A. B. (r. s.,) M. D., Physician,.....*Mellenville, N. Y.*

Graduates please see request at page 61.

*S. Wells Williams, A. B. (r. s.,) LL. D., late Professor of Chinese and Oriental Literature, Yale College,.....*New Haven, Conn.*

CLASS OF 1833.

*John G. Ambler, A. B. (r. s.,) M. D., Dentist,.....
.....16 East Forty-Second Street, *New York City.*
*Edwin B. Crocker, A. B. (r. s.,) late Justice of the Supreme Court,.....
.....*Sacramento, Cal.*
Henry J. Mabbett, A. B. (r. s.,) Agriculturist,.....*Dutchess Co., N. Y.*
*William S. Sanders, A. B. (r. s.,) Physician,.....*Shushan, N. Y.*
David C. Smith, A. B. (r. s.,) Lawyer,.....*Schenectady, N. Y.*
*Alexander Van Rensselaer, A. B. (r. s.,) M. D., *New York City.*
Bleeker B. Woodworth, A. B. (r. s.,) Lecturer on Experimental Science,
..... *Utica, N. Y.*

CLASS OF 1834.

Theron R. Hopkins, A. B. (r. s.,) C. E., Merchant,....*San Francisco, Cal.*
Samuel R. House, A. B. (r. s.,) A. M., M. D., Clergyman, *Waterford, N. Y.*
*Philo D. Whittelsey, A. B. (r. s.,) Merchant,.....*New York City.*

CLASS OF 1835.

*Caleb Briggs, B. N. S., C. E., M. D., Physician,...*North Rochester, Mass.*
*William H. Clement, C. E., late President of the Cincinnati Southern Railway Company,.....*Cincinnati, O.*
Joseph B. Cottman, B. N. S., Lecturer on Natural Science,..*Micomico, Md.*
*Jacob F. Eddy, C. E., Civil Engineer,.....*Chicago, Ill.*
*Robert G. McKee, C. E., Agriculturist,.....*Eaton Rapids, Mich.*
*D. S. Smalley, B. N. S., C. E., late Principal of Classical School,.....
.....*Jamaica Plain, Mass.*
*Edward Suffern, C. E., Agriculturist,.....*Wilmington, Ill.*
*Michael Tuomey, B. N. S., late State Geologist of South Carolina and Alabama, ———
*Amos Westcott, C. E., B. N. S., M. D., Dentist,.....*Syracuse, N. Y.*
Worthington B. Williams, C. E., Merchant,.....
.....*Putnamsville, Putnam Co., Ind.*

CLASS OF 1836.

*James S. Drayton, B. N. S., ... *Charleston, S. C.*

Graduates please see request at page 61.

*W. W. Evans, C. E., late Consulting Engineer to the governments of Chili, Peru, Costa Rica, Mexico and Colonies of Australia and New Zealand.....*New Rochelle, N. Y.*
Tyrus W. Hurd, C. E., M. D., Physician,.....*Elko, Nev.*
Aaron G. McKee, C. E., Agriculturist,..... .....*West Arlington, Vt.*
*Stephen V. R. Paterson, C. E., late Surveyor-General to the Board of Proprietors, of New Jersey,..... .....*Perth Amboy, N. J.*
*Israel Slade, C. E., B N. S., ...*Pittstown, N. Y.*
*Sherman Van Ness, C. E., B. N. S., City Surveyor of Hudson, *Hudson, N. Y.*
*Nathan R. Wilde, C. E., B. N. S., Civil Engineer,... *Worthington, Ind.*

CLASS OF 1837.

*Lorenzo M. Arnold, B. N. S., C. E.,... 94 Reade Street, *New York City.*
*Henry Baker, C. E., Accountant, ... *Waterford, N. Y.*
*B. Franklin Buck, C. E., Agriculturist,..... *West Arlington, Vt.*
*Charles R. Cook, C. E., M. D., Physician, ...*Troy, N. Y.*
*E. Thompson Gale, C. E., President of the United National Bank,..... ....*Troy, N. Y.*
*Leman B. Garlinghouse, C. E., Manufacturer,.....*Canandaigua, N. Y.*
*Fletcher J. Hawley, C. E., B. N. S., D. D., Clergyman,.... ....*Brainerd, Crow Wing Co., Minn.*
*George Johnson, C. E., B. N. S.,..... .. : .....*Utica, N. Y.*
*Levi L. Lockling, C. E., B. N. S., City Engineer,..... *San Diego, Cal.*
*James Oakey, C. E.,.....*Schaghticoke, N. Y.*
*Aaron B. Olmstead, C. E., B. N. S., A. M., President of the Saratoga Savings Bank,..... ....*Saratoga Springs, N. Y.*
*Horace N. Rogers, C. E.,.....*Hoosick, N. Y.*
Henry R. Snyder, C. E., Chief Engineer of the Atlantic and Ontario Railroad,... .....*Johnstown, N. Y.*
James P. Wallace, C. E.,..... ...52 Broadway, *New York City.*
*Levi H. Warren, C. E., ...*Paterson, N. J.*
*Charles Whipple, C. E., M. D., Physician..... *Nyack, N. Y.*
*John Woodworth, Jr., C. E.,.....*Albany, N. Y.*

CLASS OF 1838.

*Henry J. Avery, B. N. S., M. D., Physician, ... *Amsterdam, N. Y.*
*George W. R. Bayley, C. E., late Chief Engineer and General Superintendent of the New Orleans, Mobile, and Texas R R., *New Orleans, La.*

Graduates please see request at page 61.

*William C. Bailey, B. N. S., A. M., M. D., Physician, *Chatham Village, N. Y.*
Ezra S. Carr, C. E., B. N. S., M. D., L. L. D., Formerly Superintendent of Public Instruction of the State of California, ... *Pasadena, Los Angeles Co., Cal.*
*Charles S. Cross, C. E., late Engineer Spuyten Duyvil & Port Morris Railroad, ... *Brooklyn, N. Y.*
*Charles S. Field, C. E., Civil Engineer, ... *Troy, N. Y.*
*Eben N. Horsford, C. E., A. M., Formerly Rumford Professor in Harvard University, ... *Cambridge, Mass.*
*Jerome B. Howard, C. E., Artist, ... *New Haven, O.*
*David Kendall, C. E., Manufacturer of Thermometers and Barometers, ... *Rochester, N. Y.*
*William G. Lapham, C. E., late Superintendent of the Western Division of the New York Central and Hudson River Railroad, ... *Syracuse, N. Y.*
*George B. Lent, C. E., Civil Engineer, ... *Poughkeepsie, N. Y.*
Edward Mynderse, C. E., Merchant, ... *Seneca Falls, N. Y.*
*Allen Pearce, C. E., Agriculturist, ... *Bloomfield, N. Y.*
*George Putnam, C. E., Agriculturist, ... *Harmar, O.*
*John A. Robison, B. N. S., Contracting Engineer, ... *Santiago, Cuba.*
*Norman Stratton, C. E., late Civil Engineer, U. S. Navy Yard, ... *Brooklyn, N. Y.*
*Albert A. Thompson, B. N. S., ... *Troy, N. Y.*
Stephen T. Whipple, C. E., Manufacturer, ... *Pittsfield, Mass.*

CLASS OF 1839.

Benjamin W. Bours, C. E., Banker, ... *Stockton, Cal.*
*Edward Brinley, Jr., B. N. S., C. E., Civil Engineer, and Surveyor-General of East New Jersey, ... *Perth Amboy, N. J.*
*George H. Cook, C. E., B. N. S., Ph. D., LL. D., late Vice President of and Professor of Chemistry and Natural Philosophy in Rutger's College, and State Geologist of New Jersey, ... *New Brunswick, N. J.*
*Elihu W. Cotes, C. E., Merchant, ... *Warren, O.*
*George R. Dennis, B. N. S., M. D., late U. S. Senator from Maryland, ... *Kingston, Md.*
*Henry J. Drayton, C. E., Civil Engineer, ... *Philadelphia, Pa.*
*William Gurley, C. E., Manufacturer of Mathematical Instruments, ... *Troy, N. Y.*

Graduates please see request at page 61.

*Strickland Kneass, C. E., late Assistant to the President of the Pennsylvania Railroad Company,.....*Philadelphia, Pa.*
*John Van Ness Philip, B. N. S., late Lieutenant in the U. S. Navy,.....
.....*Claverack, N. Y.*
*James H. Post, C. E., Teacher, ...*Fonda, N. Y.*
*George C. Potter, C. E., Civil Engineer,.....*Oakland, Cal.*
William J. Powell, C. E.,.....31 Ninth Avenue, *New York City.*
Orrin Stebbins, C. E., B. N. S., ... *West Troy, N. Y.*
James Tilghman, B. N. S., C. E.,..... *Queen Anne Co., Md.*
Peter Van Rensselaer, B. N. S., C. E., Lumber Merchant,.....
.....191 North Pearl Street, *Albany, N. Y.*
*Augustus P. Van Schaick, C. E., Civil Engineer,....*Lansingburgh, N. Y.*
*Francis G. Woodward, C. E., Mechanical Engineer,....*Worcester, Mass.*

CLASS OF 1840.

*Charles H. Anthony, B. N. S., A. M., late Principal of Classical School.
.....*Albany, N. Y.*
*Charles Collins, C. E., B. N. S., late Chief Engineer of the Lake Shore and Michigan Southern Railroad,.....*Cleveland, O.*
Edward N. Dauchy, C. E., Merchant,.....*Troy, N. Y.*
Anson Durham, C. E., Agriculturist, ... *Galesville, N. Y.*
Abel N. Haskin, B. N. S., C. E., Manufacturer,.....*Petersburg, Va.*
*Alfred B. Haskin, C. E., B. N. S., Manufacturer,.....*Battenville, N. Y.*
*William Lewis, C. E., B. N. S., M. D., Druggist,.....*Burlington, Wis.*
Austin F. Park, C. E., B. N. S., A. M., Solicitor of Patents,...*Troy, N. Y.*
*Samuel B. Parsons, C. E., ... *Colebrook, N. H.*
George H. Starbuck, C. E., U. S. Supervising Inspector of Steamboats,....
.....Room 152, P. O. Building, *New York City.*
*William G. Vought, C. E., B. N. S., Manufacturer,..... *Victory, N. Y.*
Gurdon B. Wallace, C. E., Chemist.....*Peekskill, N. Y.*
*John H. White, C. E., Attorney and Counsellor at Law,...*New York City.*

CLASS OF 1841.

Joseph R. Bradway, C. E., B. N. S., Physician,.....
.....1003½ Broadway, *Oakland, Cal.*
*Eldridge G. Buswell, B. N. S., C. E., M. D., Physician,.....
..... *Northampton, Mass.*
*Nathan Cotterell, 2d, C. E., Agriculturist,.....*Hoosick Falls, N. Y.*

Graduates please see request at page 61.

*Joel B. Harris, C. E., Manufacturer of Car Wheels,.....*Rutland, Vt.*
Leonard W. Haskin, C. E., Manufacturer,..121 *Cedar st., Jacksonville, Fla.*
Charles B. Hyde, C. E., Civil Engineer,.....*Hastings, Oswego Co., N. Y.*
Douglass W. Hyde, C. E., Manufacturer, ...*Bennington, Vt.*
*Joseph H. Jenny, C. E., Manufacturer,.....*Troy, N. Y.*
*Edward R. Kellogg, C. E., B. N. S., Real Estate Agent,...*Elizabeth, N. J.*
Nathan Kellogg, C. E., Merchant,.....285 Broadway, *New York City.*
*Louis La Coste, C. E., ...*Boucherville, L. C.*
Seneca H. Marlett, C. E., B. N. S., Civil and Mining Engineer,.....
....*Los Angeles, Cal.*
*Solomon V. R. Miller, C. E., Agriculturist,.....*Reynolds Station, N. Y.*
*Henry Pomeroy, C. E., B. N. S., A. M., Formerly Profsesor of Mathematics in Washington University, ... *St. Louis, Mo.*
*Lodowick Stanton, Jr., C. E., Railroad Engineer,.....*Brunswick, N. Y.*
*George Tibbits, C. E., Manufacturer,.....*Troy, N. Y.*
Robert H. Van Bergen, C. E., A. M., Agriculturist,.....*Coxsackie, N. Y.*

CLASS OF 1842.

Reed B. Bontecou, B. N. S., M. D., Physician, ...*Troy, N. Y.*
David Collin, Jr., C. E., B. N. S., Agriculturist,.....*Fayetteville, N. Y.*
Henry W. Danforth, C. E., with A. & R. I. & S. Co.,.....*Troy, N. Y.*
B. Franklin Greene, C. E., B. N. S., A. M., Professor of Mathematics, U. S. Navy, ...*West Lebanon, N. H.*
Fitz Edward Hall, C. E., M. A., D. C. L. Oxon., Professor of the Sanskrit Language and Literature, and of Indian Jurisprudence, in King's College, London,.....*Marlesford, Wickham Market, England.*
*Aaron L. Lindsley, C. E., A. M., D. D., LL. D., Professor in Pacific Theological Seminary,..... *Oakland, Cal.*
John McCaughin, C. E., Teacher,..... *Shoreham, Vt.*
*Ira R. Pratt, C. E., B. N. S., (died 1843,)..... *Prattsburgh, N. Y.*
James Wade, Jr., C. E., Attorney and Counsellor at Law,.....
.....17 Cheshire St., *Cleveland, O.*

CLASS OF 1843.

*James Campbell, Jr., B. N. S., Insurance Agent,.... .....*Dayton, O.*
*Clarkson N. Potter, A. M., C. E., Attorney and Counsellor at Law,.....
....*New York City.*
*Thomas B. Small, B. N. S., C. E., M. D., Physician,...*Schaghticoke, N. Y*

Graduates please see request at page 61.

CLASS OF 1844.

*John Henry Brodt, C. E., B. N. S., A. M., Clergyman,..... .... *Dansville, N. Y.*

Jonathan B. Rider, B. N. S., C. E., Agriculturist,.....*Rider's Mills, N. Y.*

Gilbert T. Taylor, C. E., B. N. S., Formerly General Freight Agent, Panama & Aspinwall R. R.,.....*Panama, C. A.*

CLASS OF 1845.

Joseph E. Clark, B. N. S., M. D., Physician,..... ....340 Clinton Street, *Brooklyn, N. Y.*

Lewis E. Gurley, C. E., A. B., Manufacturer of Mathematical Instruments. .....*Troy, N. Y.*

*Stephen E. Haskell, B. N. S., C. E., Manufacturer,..*Lansingburgh, N. Y.*

Goodwin Lowrey, C. E., B. N. S., Engaged in Fruit Raising,..... ... .*Pass Christian, Harrison Co., Miss.*

*Thomas B. Rider, C. E., LL. B., Attorney and Counsellor at Law, ...*Rider's Mills, N. Y.*

James A. Skilton, B. N. S., LL. B., Attorney and Counsellor at Law,..... ....115 Broadway, *New York City.*

CLASS OF 1846.

Jabez P. Bloss, B. N. S., M. D., Physician,.....*Troy, N. Y.*

Samuel S. Greeley, A. B., C. E., President of the Greeley-Carlson Co., Surveyors,.....Opera House Block, *Chicago, Ill.*

*William Hall, C. E., B. N. S., Civil Engineer,.....*Mobile, Ala.*

William A. Ingham, C. E., B. N. S., LL. B., President Rock Hill Iron and Coal Company, ...320 Walnut Street, *Philadelphia, Pa.*

Alexander M. Lesley, B. N. S., Manufacturer..... ....380 Sixth Avenue, *New York City.*

John E. May, B. N. S., C. E., Merchant,..... ....113 Devonshire Street, *Boston, Mass.*

Jonathan R. Powell, C. E., B. N. S., Supervisor,..... .....*Old Chatham, Columbia Co., N. Y.*

James A. Penfield, B. N. S., Superintendent of Iron Works,..... ....155 Charles St., *Boston, Mass.*

Percival Roberts, B. N. S., C. E., Joint Proprietor of the Pencoyd Iron Works,.....216 South Fourth St., *Philadelphia, Pa.*

Graduates please see request at page 61.

James H. Salisbury, B. N. S., A. M., M. D., Physician,....*New York City.*
*Samuel W. Sutherland, C. E., Agriculturist,.....*Bloomington, Ill.*

CLASS OF 1847.

*Robert G. Cook, B. N. S., ...*Dalles, Oregon.*
*Charles Drowne, C. E., B. N. S., A. M., late Director of and Professor of Mechanics in Rensselaer Polytechnic Institute, .. *Troy, N. Y.*
*George A. Gale, B. N. S., Agriculturist, ...*Northborough, Mass.*
*John W. Murphy, B. N. S., C. E., Civil Engineer, Bridge Builder, and Contractor, ...*Philadelphia, Pa.*
George W. Plympton, C. E., A. M., Professor of Physical Science in Brooklyn Collegiate and Polytechnic Institute, ...151 Macon Street, *Brooklyn, N. Y.*
*Augustus Rossman, C. E., Agriculturist,.....*Claverack, N. Y.*
*Adrian Van Sinderen, B. N. S., C. E., A. M., Attorney and Counsellor at Law,.....*New York City.*
*J. Forman Wilkinson, C. E.,.....*Syracuse, N. Y.*
Joel R. Woodruff, C. E., Fuel Agent Texas Div. M. R. and T. R. R. Co.,.. .....*Denison, Tex.*
*Alfred A. Wotkyns, C. E., B. N. S., A. B., Merchant,.....*Troy, N. Y.*

CLASS OF 1848.

*Jasper N. Ball, C. E., A. B., Clergyman,.....*Grand Rapids, Mich.*
A. Lamont Chubb, C. E., B. N. S., Manufacturer of Agricultural Implements, ... *Grand Rapids, Mich.*
C. Frederic Crehore, C. E., M. D., Physician,....87 Milk St., *Boston, Mass.*
Richard Edwards, B. N. S., C. E., LL. D., President of Blackburn University,..... .....*Princeton, Ill.*
J. Franklin Houghton, C. E., Capitalist,..... ....216 Sansome St., *San Francisco, Cal.*
Isaac G. Johnson, B. N. S., C. E., Manufacturer of Malleable Iron,..... .....*Spuyten Duyvil, N. Y.*
Elmer H. Locke, B. N. S., ...
Lewis G. Lowe, C. E., B. N. S., A. M., M. D., Physician, *Bridgewater, Mass.*
J. G. Nickerson, B. N. S., Oil Broker,..... ....Hotel Bellevue, Beacon St., *Boston, Mass.*
Henry Sedley, C. E., Deputy Surveyor Custom House,..... .....*New York City.*

Graduates please see request at page 61.

James G. Thompson, B. N. S., Eastern Manager Chicago Herald, ...150 Nassau Street, *New York City*.

CLASS OF 1849.

*Thomas W. Bailey, C. E., C. B. & A. R. R., ... *Wapello, Ia*.
Charles A. Cummings, B. N. S., C. E., Architect, ... *Boston, Mass*.
*Joseph S. Fisher, C. E., ... *Memphis, Tenn*.
James H. Frothingham, B. N. S., C. E., Merchant, ...382 Clinton St., *Brooklyn, N. Y.*
*George M. Hall, C. E., Merchant, ...*Bastrop, Texas*.
*Hollam L. Peck, C. E., Civil Engineer, ... *Schenectady, N. Y.*
George B. Roberts, C. E., B. N. S., President of the Pennsylvania Railroad Company, ...*Philadelphia, Pa.*
*Porter Rockenstyre, C. E., Manufacturer, ...*Chicago, Ill.*
Julius A. Skilton, B. N. S., A. M., M. D., Manufacturer of Electrical Appliances..... .....*New York, N. Y.*
George A. Stearns, C. E., Treasurer of Waltham Gas Light Co., ...*Waltham, Mass.*
*Benjamin Turner, C. E., late Chief Engineer of the ——— Railroad, ... *Nicaragua, C. A.*
*Alfred Wilkinson, C. E., Banker, ...*Syracuse, N. Y.*

CLASS OF 1850.

Edward A. H. Allen, C. E., Principal of Friends' Seminary, ... *Formerly, Rutherford Place, N. Y. City*.
John F. Barnard, C. E., Formerly President and General Manager of Ohio and Miss. Railroad, ...*Cincinnati, O.*
*James W. Bradshaw, C. E., Civil Engineer, ...*Lansingburgh, N. Y.*
*José Tell Ferrao, B. S., late Principal of School for Young Ladies, ...*Bahia, Brazil.*
Cornelius S. Masten, C. E., Vice-President and Manager Maricopa & Phœnix Railroad, ...*Phœnix, Arizona.*
Nathaniel Morton, C. E., Manufacturer, ...*Plymouth, Mass.*
R. Willard Ware, C. E., Civil and Hydraulic Engineer, ...413 Broadway, *New York, N. Y.*

CLASS OF 1851.

*William H. Burrall., C. E, Mechanical Engineer, ...88 Main St., *Springfield, Mass.*

Graduates please see request at page 61.

DAVID M. GREENE, C. E., Commissioner N. Y. State Survey; Consulting Engineer,.....41 First St., *Troy, N. Y.*

*CHARLES L. LOOMIS, C. E., late Division Engineer on the Minneapolis and Cedar Valley Railroad,.....*Northfield, Minn.*

S. EDWARD WARREN, C. E., Professor of Descriptive Geometry and Stereotomy,.....*Newton, Mass.*

†WILLIAM B. COGSWELL, C. E., Chief Engineer and General Manager Solvay Process Co.,.....*Syracuse, N. Y.*

(In consequence of the extension of the courses of study, none were graduated in the year 1852.)

CLASS OF 1853.

JOHN A. BAGLEY, C. E., Civil Engineer,.....45 East Twenty-Eighth Street, *New York City.*

FREDERIC O. BURHANS, B. S., Manufacturer,.....*Warrensburgh, N. Y.*

*CHARLES H. FISHER, C. E.,† late Chief Engineer of N. Y. C. & H. R. R. R. .....*Lansingburgh, N. Y.*

DASCOM GREENE, C. E., Professor of Mathematics and Astronomy in Rensselaer Polytechnic Institute,.....*Troy, N. Y.*

CHARLES M. OSBORNE, C. E., Attorney and Counsellor at Law,.....94 Washington St., *Chicago, Ill.*

WILLIAM TWEEDDALE, C. E., Civil Engineer,.....*Topeka, Kan.*

GEORGE C. WATRISS, C. E., Draftsman, Pacific Iron Works,.....*San Francisco, Cal.*

CLASS OF 1854.

CALVIN ACKLEY, C. E., Civil Engineer,.....*Kinderhook, N. Y.*

*THOMAS K. BALTZELL, C. E., late Assistant Engineer on the —— Railroad, ...*Tallahassee, Fla.*

J. MORTON CLINCH, C. E., Manufacturer of Chronometers and Astronomical Clocks,.....112 State St., *Boston, Mass.*

HENRY CURTIS, C. E., Attorney and Counsellor at Law,... *Rock Island, Ill.*

*JOSEPH A. MOAK, C. E., Civil Engineer,.....*Richmond, Va.*

CLASS OF 1855.

JAMES T. ALLEN, B. S., Associate Principal of the English and Classical School,.....*West Newton, Mass.*

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† Honorary Degree, June, 1882.

Graduates please see request at page 61.

FRANCIS COLLINGWOOD, C. E., Secretary American Society Civil Engineers, ...127 E. 23d Street, *New York City.*

*CHARLES E. CROSS, C. E., late Capt. U. S. Engineers,.....*Lawrence, Mass.*

FREDERICK GRINNELL, C. E., President and Joint Proprietor of the Providence Steam and Gas Pipe Company,.....*Providence, R. I.*

HENRY HOLMES, C. E., Merchant, ...12 Portland Street, *Boston, Mass.*

AUGUSTO DE LACERDA, B. S., Agent for the United States and Brazil Mail Steamship Company,.....*Bahia, Brazil.*

CLASS OF 1856.

C. WHITMAN BOYNTON, C. E., Manufacturer,.....*Woodbridge, N. J.*

*LEICESTER BURNETT, C. E., Formerly Superintendent of Transportation I. F. & S. C. R. R.,.....*De Kalb Junction, N. Y.*

*NICHOLAS H. CHAMBERLAINE, C. E., Civil Engineer,.....*Keokuk, Ia.*

JOHN M. CLARK, C. E., Collector of the Port of Chicago,..... .....2000 Perry Avenue, *Chicago, Ill.*

WILSON CROSBY, C. E., Consulting Civil Engineer,..... ....125 Hammond Street, *Bangor, Me.*

JOSEPH P. DAVIS, C. E., Consulting Engineer,..... ....13 West 38th Street, *New York, N. Y.*

JOHN D. ESTABROOK, C. E., Secretary Union Depot Co.,.....*St. Paul, Minn.*

GEORGE F. ELLS, C. E., Manufacturer,.....*Binghamton, N. Y.*

CHARLES C. MARTIN, C. E., Superintendent and Chief Engineer of the East River Suspension Bridge,.....179 Washington St., *Brooklyn, N. Y.*

WILLIAM H. MARTIN, C. E., Copper Queen Mining Company,..... .....1201 Mason Street, *San Francisco, Cal.*

HIRAM F. MILLS, C. E., Hydraulic Engineer,.....*Lawrence, Mass.*

JOHN H. QUACKENBUSH, C. E., Merchant,.....*Troy, N. Y.*

*GILMAN TRAFTON, C. E., late Civil Engineer, and member of the Louisville Bridge and Iron Company, ...*Louisville, Ky.*

WILLIAM W. WALKER, C. E., President U. S. Central Railroad,..... .....*Cedar Rpids, Ia.*

JOHN A. WILSON, C. E., Wilson Bros. & Co., Civil Engineers and Architects, Drexel Building,.....*Philadelphia, Pa.*

EDMUND YARDLEY, C. E., Statistician Pennsylvania Lines west of Pittsburgh,..... .....*Pittsburgh, Pa.*

Graduates please see request at page 61.

CLASS OF 1857.

FREDERIC Y. DABNEY, C. E., Chief Engineer Georgia Central R. R., ... *Savannah, Ga.*

ROBERTO ESCOBAR, C. E., Assistant Engineer, Union Bridge Co., ... 1 Broadway, *New York City.*

*T. ORLANDO HOPKINS, C. E., late Civil Engineer and County Surveyor, ... *Alvarado, Cal.*

G. FREDERIC KIRBY, C. E., Formerly Superintendent I. C. R. R., ... *Chicago, Ill.*

GABRIEL LEVERICH, C. E., Principal Assistant Engineer, East River Suspension Bridge, ... 179 Washington Street, *Brooklyn, N. Y.*

CHARLES MACDONALD, C. E., Union Bridge Co., ... 1 Broadway, *New York City.*

*JOHN OSTROM, A. B., C. E., late Civil Engineer, ... *Virginia City, Nev.*

WILLIAM M. PRATT, C. E., Mining Engineer, *Mankato, Blue Earth Co., Minn.*

WASHINGTON A. ROEBLING, C. E., formerly Chief Engineer of the East River Suspension Bridge, ... *Trenton, N. J.*

*FRANCISCO TRUJILLO, C. E., late First Assistant Engineer on the Havana Railroad, ... *Havana, Cuba.*

*HEZEKIAH WATKINS, C. E., A. M., LL. B., Attorney and Counsellor at Law ..... *New York City.*

DE VOLSON WOOD, C. E., A. M., Professor of Mathematics and Mechanics in Stevens Institute of Technology, ... *Hoboken, N. J.*

CLASS OF 1858.

JAMES C. COIT, A. B., C. E., Lieut. Governor of South Carolina, ... *Cheraw, S. C.*

THEODORE COOPER, C. E., Consulting Civil and Mechanical Engineer, ... 35 Broadway, *New York City.*

WILLIAM HOWARD DOUGHTY, C. E., Fiduciary Agent, ... *Troy, N. Y.*

ALBERT H. EMERY, C. E., Civil Engineer, Towne Manufacturing Co., ... *Stamford, Conn.*

CLARK FISHER, C. E., Proprietor of Fisher Rail Joint and Eagle Anvil Works, formerly Chief Engineer U. S. Navy, ... *Trenton, N. J.*

*HENRY HARLEY, C. E., Merchant, ... *Pittsburgh, Pa.*

*GEORGE HUNT, C. E., late Civil and Mining Engineer, ... *Gold Hill, Nev.*

Graduates please see request at page 61.

JOSEPH M. KNAP, C. E., Agent Bullock Printing Press Co.....
....365 West Street, *New York City.*
WILLIAM METCALF, C. E., Joint Proprietor of the Crescent Steel Works,....
.....*Pittsburgh, Pa.*
*HENRY W. MERIAN, C. E., late Third Assistant Engineer in the U. S. Navy,
.....*Steamer "Weehawken."*
ARIO PARDEE, JR., C. E., President of the Allentown Rolling Mill Co., ...
.....237 South Third St., *Philadelyhia, Pa.*
GEORGE H. PEIRCE, C. E., Mining Engineer,..... .....
... .*Richmond, Province of Quebec, Canada.*
*JOSEPH G. RICE, C. E., late Superintendent of Silver Mines,.....
....*Bear Valley, Cal.*
L. FREDERIC RICE, C. E., Civil Engineer and Architect,.....
....125 Milk St., *Boston, Mass.*
RICHARD P. ROTHWELL, C. E., M. E., Associate Editor of the Engineering and Mining Journal,.....37 Park Place, *New York City.*
J. GARDNER SANDERSON, C. E., Manufacturer Portland Cement.. .....
.....151 W. 35th St., *New York City.*
JOSEPH M. WILSON, C. E., Wilson Bros. & Co., Civil Engineers and Architects, Drexel Building,..... .....*Philadelphia, Pa*
CHARLES W. WINSLOW, C. E., Auditor of Collections, C. B. & Q. R. R. Co.
....209 Adams St., *Chicago, Ill.*

CLASS OF 1859.

ALEXANDER J. CASSATT, C. E., President N. Y., Phila. & Norfolk R. R. Co.,
.... 305 Walnut St., *Philadelphia, Pa.*
José N. CASANOVA, B. S., ... *Cardenas, Cuba.*
WALTER CRAFTS, C. E., formerly Vice President and General Manager of the Woodstock Iron Co.,..... .....*Oberlin, Ohio.*
*ORMONDW. FOLLIN, B. S., Agent of the P. M. Steamship Company,.....
....*Santa Cruz, Cal.*
ALBERT S. GREENE, C. E., Chief Engineer, U. S. Navy; Inspector of Steel Shafting, Hotel Woodruff,.....*Chicago, Ill.*
*GEORGE M. GREENE, C. E., late Passed Ass't Engineer in the U. S. Navy,——
THEODORE I. HEIZMANN, C. E., formerly Chief Engineer Maintenance of Way, Pennsylvania Railroad Co., 1329 Perkiomen ave...*Reading, Pa.*
*JAMES R. PERCY, C. E., late Capt. U. S. Engineers, (Volunteers,).....
....*Fowler's Mills, O.*

Graduates please see request at page 61.

Harrison A. Royce, C. E., President and General Manager Thompson Electric Welding Co.,.....70 Kilby St., *Boston, Mass.*
*Russell Sage, 2d, C. E., Capitalist,.....*New York City.*
Arthur B. de Saulles, B. S., Fountain Hill, House,... *S Bethlehem, Pa.*
Robert I. Sloan, C. E., Chief Engineer, South Side Rapid Transit, Hotel Woodruff,.....*Chicago, Ill.*
Frank G. Smith, C. E., 2nd U. S. Artillery, U. S. A., ... *Fort Adams, Newport, R. I.*
Lorenzo J. de Viscarrondo, C. E., Municipal Architect,..... .....*Ponce, Porto Rico, W. I.*
*Norman A. Williams, C. E., Manufacturer, ...*Utica, N. Y.*

CLASS OF 1860.

*James W. Birdsall, T. E., Merchant,...255 Sixth Avenue, *New York City.*
Alberto de Castro, T. E., Chief Engineer Havana Tramway Co.,... .....Empredrado 34, *Havana, Cuba.*
Luiz da R. Dias, Jr., T. E. C. E., President Pecanha Araxa R. R.,..... ..... *Pernambuco, Brazil.*
Richard D. Dodge, C. E., Principal Prospect Park Institute, *Brooklyn, N. Y.*
*Edward M. Grant, C. E., late U. S. A. Vice Consul,.....*Belgrade, Servia.*
*Henrique Harris, T. E., C. E., late Chief Engineer of the New York and Manhattan Beach Railway, ...*Brooklyn, N. Y.*
*George C. Holton, C. E., Merchant,.....*Belleville, C. W.*
Ramon Matas, T. E., Civil Engineer,.....*Barcelona, Spain.*
Charles McMillan, C. E., Professor of Civil Engineering in Princeton College,.....*Princeton, N. J.*
Calvin Pardee, B. S., Assistant Superintendent of Coal Mines, ...*Hazleton, Pa.*
John Pemberton, Jr., C. E., Passed Assistant Engineer in the U. S. Navy, ...*Philadelphia, Pa.*
William H. Searles, C. E., Vice President and General Manager of the Essex Iron Co.,.....5 Euclid ave., *Cleveland, O.*
*Aurelio Serrano, C. E., late Assistant Engineer on the Croton Water Works,.....*New York City.*
William S. Simpson, B. S., U. S. Assistant Engineer, Custom House,..... .....*St. Louis, Mo.*
Charles E. Smith, C. E., LL. B., Attorney and Counsellor at Law,...——
Felix R. R. Smith, C. E., Planter,.....*Heckatoo, Ark.*

Graduates please see request at page 61.

*Charles B. Thompson, B. S., Banker and Manufacturer,....*Rockford, Ill.*
John D. Van Buren, C. E., formerly State Engineer and Surveyor of New York,.. .....*Newburgh, N. Y.*

CLASS OF 1861.

*William L. Baldwin, C. E., M. D., Physician,.....*Jacksonville, Fla.*
Alfred P. Boller, A. M., C. E., Engineer and Contractor,..... ....71 Broadway, *New York City.*
*Ebenezer P. Buckingham, C. E., late Superintendent of Oil Wells,..... .....*Mt. Vernon, O.*
*James Cromwell, C. E., late Major U. S. Infantry, (Volunteers)..... ....*Cornwall, N. Y.*
Rufus H. Emerson, C. E., Dealer in Coal and Wood Pulp,..*Jackson, Mich.*
William Fenton, C. E., Clergyman,... .....*St. Paul, Minn.*
*Joseph G. Fox, C. E., A. M., late Professor of Civil and Topographical Engineering in Lafayette College,.....*Easton, Pa.*
Estévan A. Fuertes, C. E., Dean of the Faculty of Civil Engineering in Cornell University,.....*Ithaca, N. Y.*
Burnett C. Gowing, C. E., Chief Engineer in the U. S. Navy..... .....506 Herkimer St., *Brooklyn, N. Y.*
William L. Haskin, C. E., Major 1st U. S. Artillery,..... .....*Governor's Island, New York Harbor.*
Warren T. Kellogg, C. E., Manufacturer,..... .....450 State Street, *Lansingburgh, N. Y.*
*James Lally, C. E., Merchant,.....*New York City.*
*Anthony T. E. Mullin, C. E., late Passed Assistant Engineer in the U. S. Navy,.....*Watertown, N. Y.*
Robert Neilson, C. E., General Superintendent Philadelphia and Erie Division of the Pennsylvania Railroad and Northern Central Railroad,.... .....*Williamsport, Pa.*
T. Guilford Smith, A. M., C. E., Regent of the University State of New York; Manufacturer of Car Wheels,.....*Buffalo, N. Y.*
Thaddeus S. Smith, C. E., Manufacturer,..821 Choteau Ave., *St. Louis, Mo.*
Mosher A. Sutherland, C. E., Manufacturer, 32 Liberty St., *New York City.*
William N. Symington, C. E., Consulting Mining Engineer,..... ....18 Broadway, *New York City.*

Graduates please see reguest at page 61.

CLASS OF 1862.

WILLIAM L. ADAMS, C. E., Division Engineer, Omaha Branch, Union Pacific Railroad,... .....*Omaha, Neb.*

WILLIAM S. AUCHINCLOSS, C. E., Merchant,..... .....209 Church Street, *Philadelphia, Pa.*

*NATHAN W. BUCKHOUT, C. E., Civil Engineer,.....*Burkesville, Ky.*

RICHARD H. BUEL, C. E., Consulting Mechanical Engineer,..... ....*Evening Post* Building, 206 Broadway, *New York City.*

HORACE CROSBY, C. E., Civil Engineer,.....*New Rochelle, N. Y.*

*ARBA R. HADDOCK, C. E., Brewer, 410 East Fourteenth St., *New York City.*

ANICETO G. DE MENOCAL, C. E., Civil Engineer, U. S. Navy, Chief Engineer of the Nicaragua Canal Construction Co.,..... .... Navy Department, *Washington, D. C.*

JOHN C. UNDERWOOD, C. E., late Lieut.-Governor of the State of Kentucky, ... *Chicago, Ill.*

PETER D. VROOM, C. E., Major, and Inspector General U. S. A Headquarters Department of Texas, ... *San. Antonio, Texas.* .....Pullman Building, *Chicago, Ill.*

CLASS OF 1863.

*FRANCIS E. APPLETON, C. E., Civil Engineer, ...*Dayton, O.*

VAN BRUNT BERGEN, C. E., Assistant Engineer on the Brooklyn Water Works, ...*Bay Ridge, N. Y.*

*PERCY T. BROWNE, C. E., late Division Engineer on the Union Pacific Railroad,.....*Omaha, Neb.*

*JAMES P. GOULD, C. E.,.....*Buxton P. O., Traill Co., Dakota.*

*FRANK HINCKLEY, C. E., Agriculturist,.....*Old San Bernardino, Cal.*

FRANCISCO R. NARANJO, C. E., Civil Engineer,.....*Coquimbo, Chile.*

AUGUSTUS E. W. PAINTER, C. E., President of J. Painter & Son Company, Iron Manufacturers, ...*Pittsburgh, Pa.*

BENJAMIN C. POTTS, C. E., Treasurer Rose Valley Woolen Mills,..... .....*Medina, Pa.*

GEORGE T. STODDER, C. E.,.....*Bangor, Me.*

EDWIN THACHER, C. E., Bridge Engineer and Contractor,..*Louisville, Ky.*

IGNACIO M. DE VARONA, C. E., Engineer in charge of the extension of the Brooklyn Water Works ; Chief Engineer and Superintendent of the Albany Special Water Commission, 44 Court St., *Brooklyn, N. Y.*

Graduates please see request at page 61.

*Frederic W. Vaughan, C. E., late President Louisville Bridge and Iron Company, Chief Engineer Henderson Bridge Co., and Consulting Engineer Louisville and Nashville R. R. Co.,.....*Louisville, Ky.*

CLASS OF 1864.

Peter H. Fox, C. E.,.....*Avon, N. Y.*
Ralph G. Packard, C. E., President Atlantic Dredging Company, ...
.....34 Pine Street, *New York City.*
Robert Van Buren, C. E., Chief Engineer, Department of Public Works,..
.....153 Remsen St., *Brooklyn, N. Y.*
Christopher C. Waite, C. E., President Columbus Hocking Valley and Toledo Railroad Co..... .....*Columbus, O.*
Drake Whitney, C. E., Corporation Engineer,.....*Niagara Falls, N. Y.*
Henry W. Wilson, C. E., Wilson Bros. & Co., Civil Engineers and Architects, Drexel Building,.....*Philadelphia, Pa.*

CLASS OF 1865.

*George B. Brainerd, C. E., Civil Engineer, Purveyor's Office, Brooklyn Water Works,..... .....*Brooklyn, N. Y.*
Samuel Buel, Jr., C. E., Civil Engineer,..1329 Broadway, *New York City.*
Clifford Buxton, C. E., Engineer, Toledo & Ohio Central Railroad,.....
.... 9 St. Clair Building, *Toledo, O.*
Thomas M. Cleemann, A. M., C. E., Civil Engineer,.....
.....2135 Spruce Street, *Philadelphia, Pa.*
Henry H. Farnum, C. E., Engineer in Charge of Sewers for District North of the Harlem River,.....2622 Third Ave., *New York, N. Y.*
John W. Griswold, B. S., Griswold Silk and Worsted Co.,.....
....322 Chestnut Street, *Philadelphia, Pa.*
Horace Loomis, C. E., Assistant Engineer, Department of Public Works,..
... .31 Chambers Street, *New York City.*
Marshall H. Mallory, C. E., Proprietor of the *Churchman*,.....
.....47 Lafayette Place, *New York City.*
José R. da S. Pirajá, Jr., C. E., Assistant Engineer on the Petropolis Railroad,..... *Rio de Janeiro, Brazil.*
Thomas C. Raymond, C. E., Mining Engineer,....95 Milk st., *Boston, Mass.*
*John C. Thompson, C. E., late Assistant Engineer on the Croton Water Works .....*New York City.*
Alfred T. White, C. E., Merchant,.....130 Water St., *New York City.*

Graduates please see request at page 61.

CLASS OF 1866.

*Alexander Addison, C. E., late Student of Mining Engineering at Clausthal, Germany,.....*Pittsburg, Pa.*

Charles C. Craft, C. E., Civil Engineer, *Crafton P. O., Allegheny Co., Pa.*

Theodore N. Ely, C. E., Chief of Motive Power of the Pennsylvania Railroad,.....*Philadelphia, Pa.*

Herbert C. Felton, C. E., Treasurer and Superintendent, Kaighn's Point and Philadelphia Ferry Co.,.....*Camden, N. J.*

*John Q. A. Ford, C. E., late Passed Assistant Engineer in the U. S. Navy, ...*Steamer "Pensacola."*

William P. Harris, C. E., Superintendent C. C. & C. R. R.,..... .....*Johnson City, Tenn.*

*George M. Hunt, C. E., Teacher,.....*North Argyle, N. Y.*

*Thomas L. Knap, C. E., Ranch Farmer,.....*near Santa Barbara, Cal.*

*Benjamin N. Lilienthal, C. E., late Superintendent of the New York Mill, for the Golden Chariot Company,..... ...*Silver City, Idaho.*

Albon P. Man, A. B., C. E., General Manager Silver Springs, Ocala and Gulf R. R. Co..... .....*Ocala, Fla.*

Charles P. Perkins, A. M., C. E., Real Estate Department of Pennsylvania Railroad,.....Office of P. R. R., *Philadelphia, Pa.*

Joseph C. Platt, C. E.,.....Consulting Engineer, *Waterford, N. Y.*

Charles W. Rae, C. E., Passed Assistant Engineer, U. S. Navy,..... ....Office of Naval Intelligence, Navy Dep't, *Washington, D. C.*

John S. Schaeffer, C. E., City Surveyor,.....*Newark, N. J.*

Holland N. Stevenson, C. E., Passed Assistant Engineer U. S.Navy,..... .....U. S. S. Alliance, *Yokohama, Japan.*

Frank N. Trevor, C. E., Manufacturer of Machinery,.....*Lockport, N. Y.*

William H. Wiley, A. B., C. E., Publisher and Bookseller, ...53 E. 10th St., *New York City.*

CLASS OF 1867.

*A. W. Ferreira D'Aguiar, A. M., C. E., Civil Engineer,..... .....*Rio de Janeiro, Brazil.*

Palmer H. Baermann, C. E., City Engineer,.....*Troy, N. Y.*

Arthur Beardsley, C. E., Ph. D., Professor of Engineering and Director of Mechanic Arts in Swarthmore College,.....*Swarthmore, Pa.*

Abraham B. Cox, Jr., A. M., C. E., Civil Engineer,...*Cherry Valley, N. Y.*

*José Escobar, C. E., Civil Engineer,..... *Trinidad, Cuba.*

Graduates please see request at page 61.

SAMUEL J. FIELDS, C. E., City Engineer,.....*Buffalo, N. Y.*
MAX L. GOLDSTEIN, C. E., Coal Merchant,.....
.....413 East Fifty-First Street, *New York City.*
CÁRLOS GUERRERO, B. S., C. E., Chief Engineer Ferro Carriles Unidos.....
.....*Havana, Cuba.*
*ALBERT M. HARPER, C. E., Merchant,.....*Pittsburgh, Pa.*
FRANK J. HEARNE, C. E., General Manager of the Riverside Iron Works,..
.....*Wheeling, W. Va.*
JOSÉ HERNANDEZ, C. E., Chief Engineer Santo Domingo Railroad,.....
.....*Manzanville Bay.*
CHARLES E. ILLSLEY, A. M., C. E., Architect,..... *St. Louis, Mo.*
ERNESTO L. LUACES, A. B., C. E., Chief Engineer of the Santo Marta Railroad,.....*Santa Martoa, Colombia, S. A.*
GEORGE B. MALLORY, C. E., Civil Engineer,..55 Broadway, *New York City.*
THOMAS F. MARSHALL, A. B., C. E., Agent Otto Gas Engine Works,.....
..... .19 Pearl St., *Boston, Mass.*
ALBERT H. MILLET, C. E., Engineer of Water Works,.....
.....*Guayaquil, Ecuador.*
FRANK L. MOORE, C. E., Real Estate, etc.,.....*Chatham, Morris Co., N. J.*
CHARLES H. MOSS, C. E., Banker,.....*Sandusky, O.*
C. VALLETTE PETTIBONE, C. E., Merchant, ...*Foud du Lac, Wis.*
JOHN SALTAR, Jr., C. E., Manager Otto Gas Engine Works Chicago,
.....151 Mnnroe St., *Chicago, Ill*
POMPEYO SARIOL, C. E., Chief Engineer, Caiharien and Santo Espiritn Railroad,..... .... *Remedios, Cuba.*
FRANCIS H. SAYLOR, A. M., C. E., Engineer and Bridge Bnilder,.....
.....257 Sonth Fonrth Street, *Philadelphia, Pa.*
MILO A. SMITH, C. E., Real Estate,.....*Denver, Col.*
WILLIAM B. STILSON, C. E., Chief Engineer in Track Department, Michigan Central Railroad,.....125 Lincoln Avenue, *Detroit, Mich.*
CYRUS R. STONE, C. E., Building Inspector.....*St. Paul, Minn.*

CLASS OF 1868.

JOSEPH J. ALBRIGHT, M. E., Coal Sales Agent, Philadelphia and Reading Coal and Iron Company,..... .....*Buffalo, N. Y.*
THOMAS APPLETON, C. E., Civil Engineer and Architect,.....
....Rialto Building, *Chicago, Ill.*

Graduates please see request at page 61.

José J. A. de Barcellos, B. S., C. E., Sugar Cane Planter,..... .... *Campos, Brazil.*
Stephen W. Barker, M. E., Merchant,.....*Troy, N. Y.*
Virgil G. Bogue, C. E., Civil Engineer, ...*Portland, Oregon.*
Roswell E. Briggs, C. E., Consulting Engineer D. A. & W. R. R., ...*Denver, Col.*
Leffert L. Buck, C. E., Civil and Consulting Engineer,..... ....18 Broadway, *New York City.*
Joseph H. Campbell, M. E., Assistant Editor of the Tribune,..... .... *Cincinnati, O.*
Gaspar F. de Ceballos, C. E., Professor of Mathematics, English Language and Drawing, Institute Veracrysano, Botica la Merced,..... ....*Vera Cruz, Mexico.*
Mordecai T. Endicott, C. E., Civil Engineer in the U. S. Navy, Bureau of Yards and Docks, U. S. Navy Department,.....*Washington, D. C.*
*Francis F. Fay, M. E., Mining Engineer,.....*Troy, N. Y.*
*G. Thomas Hall, C. E., late Principal Assistant Engineer, East Side Metro. politan Elevated Railway, ...*New York City.*
Benjamin R. Lawrance, B. S.,.....*Rochester, N. Y.*
Alter Megear, C. E., ...3306 Arch Street, *Philadelphia, Pa.*
William W. Mills, C. E., Civil Engineer.....Box 334, *Pasadena, Cal.*
Othniel F. Nichols, C. E., Chief Engineer and General Manager Brooklyn Elevated R. R.,..... *Brooklyn, N. Y.*
*Harwood V. Olyphant, C. E., late Assistant President of the Delaware and Hudson Canal Company,.....*Albany, N. Y.*
Ambrose V. Powell, C. E., Civil Engineer,..... ....151 Monroe St., *Chicago, Ill.*
*C. Ridgely Schott, C. E., Division Engineer, Bureau of Civil and Topographical Engineering, Department of Public Parks, *New York City.*
George S. Skilton, C. E., Manufacturer, ...*Brooklyn, N. Y.*
*Theodore S. Smith, Jr., C. E., Assistant Engineer on the Jersey City and Albany Railroad,..... .....Penn. R. R. Co.,..
Irving A. Stearns, M. E., Manager of the Coal Co's. of *Stony Point, N. Y.* .....*Wilkes-Barre, Pa.*

CLASS OF 1869.

Truman H. Aldrich, M. E., Vice-President Gahaba Coal Mining Co.,..... .....Southern Avenue, *Cincinnati, O.*

Graduates please see request at page 61.

ROBERTO ANZOLA, C. E., Civil Engineer,.....*La Palma, New Granada.*

EDWARD W. ARMS, C. E., Manufacturer of Mathematical Instruments,.....
.....*Troy, N. Y.*

ROBERT B. C. BEMENT, C. E., Hydraulic Engineer, ...
.....Summet Place, *St. Paul, Minn.*

ALEXANDER M. BLACK, C. E., ... P. O. Box 52, *Pittsburgh, Pa.*

FREDERICK J. BOLLER, C. E., Assistant Engineer Department of Docks....
.....Pier A, *New York, N. Y.*

HENRY BURDEN, M. E., Assistant General Manager Colorado Coal and Iron Company.....*Pueblo, Cal.*

WILLIAM N. BURGESS, M.E., Civil Engineer,.....*Kansas City, Mo.*

ROBERT FORSYTH, C. E., Chief Engineer Illinois Steel Company,.....
.....*Chicago, Ills.*

*HENRY G. MCCLELLAN, C. E., late Chief Engineer, Nevada & Oregon R. R.,
.....*Reno, Nev.*

JOSEPH MULLIN, C. E., Attorney and Counsellor at Law, ...
.....*Watertown, N. Y.*

WILLIAM A. PECK, A. M., C. E., Civil Engineer,.....
.....1051 Clarkson St., *Denver, Col.*

ROBERT C. PEEBLES, C. E. Assistant Superintendent M. N. R. R.,.....
.....*City of Mexico, Mexico.*

*JOHN PIERPONT, M. E., late Assistant U. S. Engineer on Improvement of River Navigation,.....*Milwaukee, Wis.*

JOHN SQUIRES, C. E., Manufacturer,.....*Troy, N. Y.*

ARTHUR B. STARR, C. E., Superintendent Eastern Division Pennsylvania Railroad Co.,.....*Allegheny, Pa.*

LOWELL H. STONE, C. E., Resident Engineer Minnesota & Northwestern Railroad,.....1106 Grand Avenue., *Des Moines, Ia.*

WILLIAM A. THOMPSON, C. E., Engineer Newark Water Works,.....
.....347 Belleville Avenue, *Newark, N. J.*

CHARLES H. UTLEY, M. E., Merchant,.....*Buffalo, N. Y.*

THEODORE VOORHEES, C. E., Vice President of the Philadelphia and Reading R. R. Co.,.....*Philadelphia, Pa.*

CLASS OF 1870.

HENRY N. BABCOCK, M. E., Assistant U. S. Engineer in charge of Coast Improvement,.....*New Haven, Conn.*

*JOSEPH T. BAILY, C. E., Civil Engineer,.....*Paterson, N. J.*

Graduates please see request at page 61.

ANTHONY H. BLAISDELL, C. E., Assistant Engineer Mo. River Commission.. .....1515 Lucas Pl., *St. Louis, Mo.*

ARTHUR E. BOARDMAN, C. E., President and Treasurer of the Macon Gas Light and Water Co.,.....*Macon, Ga.*

JUAN GONZALEZ, JR., C. E., Merchant,..Commercio No. 5, *Matanzas, Cuba.*

JACOB E. HEYL, B. S., Sugar Manufacturer,..... ....1715 Wallace Street, *Philadelphia, Pa.*

*GEORGE H. MANN, C. E., Civil Engineer,.....*New Haven, Conn.*

*CHARLES R. MATHER, M. E., late U. S. Custom Official, New York City,.. ....*Ridgefield, N. J.*

THOMAS O'NEIL MORRIS, C. E., Engineer Maintenance of Way, Chicago, St. Louis and Whitewater Divisions of the C. C. C. and St. Louis Railway.....*Indianapolis, Ind.*

ROBERT C. NEAL, M. E., Manager of the Lochiel Iron Works ....*Harrisburg, Pa.*

GEORGE D. NICKEL, M. E., Deputy U. S. Surveyor of Public Lands,.... ....*Del Norte, Rio Grande Co., Col.*

EDWARD PARRISH, JR., C. E., U. S. Engineer's Office,.....*Newport, R. I.*

JOHN H. RANDOLPH, C. E., Instructor in Practical Mechanics at Louisiana State University,.....*Baton Rouge, La.*

JAMES D. RAYNOLDS, C. E., Civil Engineer,... ....*Riverside, Cook Co., Ill.*

HENRY A. ROWLAND, C. E., Ph. D., Professor of Physics in the Johns Hopkins University,.....*Baltimore, Md.*

NATHANIEL E. RUSSELL, C. E., General Manager of the W. A. Wood M. & R. M. Co.,..... ....*Hooosick Falls, N. Y.*

CHARLES H. SCOTT, M. E., Merchant, Bullitt Building,....*Philadelphia, Pa.*

JUSTUS M. SILLIMAN, M. E., Ph. D., Markle Professor of Mining Engineering and Graphics in Lafayette College,.....*Easton, Pa.*

EDWARD SOTHERS, M. E., Mining Engineer,.....*Valparaiso, Chile.*

WILLIAM C. STRAWBRIDGE, M. E., Attorney and Counsellor at Law,..... ....903 Walnut Street, *Philadelphia, Pa.*

CLASS OF 1871.

FEDERICO M. ALCOVER, C. E., Civil Engineer,.....*Sagua la Grande, Cuba.*

MIGUEL DE T. ARGOLLO, C. E., Director and Chief Engineer of the Prolongamento da Estrada de Ferro da Bahia ; Alagointas....*Bahia, Brazil.*

Graduates please see request at page 61.

*William L. Baker, C. E., late Superintendent and Engineer, Detroit Bridge and Iron Works.....*Detroit, Mich.*

William S. Bates, M. E., Attorney-at-Law, 204 Dearborn St., *Chicago, Ill.*

Alfred S. Bertolet, M. E., General Manager West Duluth Furnace Co.,... .....*West Duluth, Minn.*

Henry M. Boardman, C. E., Druggist, ...*Ashtabula, O.*

Arthur W. Bower, C. E., Broker,.. . *Stanford, Fergus Co., Montana.*

Milton W. Ensign, C. E., Engineer B. & M. R. R.,.....*Lincoln, Neb.*

Albert W. Foster, C. E., Manufacturer,.....*Atlanta, Ga.*

Fred. L. Garlinghouse, C. E., Civil and Consulting Engineer, Chief Engineer Pittsburgh Bridge Co.,.....*Pittsburgh, Pa.*

Alberto V. de Goicouria, C. E., Broker, 17 Broad Street, *New York City.*

Charles L. Grimes, C. E., Superintendent Moline Iron Works, *Moline, Ill.*

Alfred P. Kirtland, C. E., formerly Superintendent West Pennsylvania Division of the Pennsylvania Railroad..... *Allegheny, Pa.*

George C. MacGregor, C. E., Engineer for Smith & Hanfield,..... .....*Schenectady, N. Y.*

M. William Mansfield, C. E., Superintendent of I. & V. Division, Pennsylvania Co.,..... *Indianapolis, Ind.*

*J. Harrod Marks, C. E., late Assistant Engineer on the Southern Pacific Railroad,.....*Jefferson, Tex.*

Henry G. Morse, C. E., President Edge Moor Bridge Works, *Edge Moor, Del.*

*Edward Nichols, B. S., President Brooks Locomotive Works,..... .....*Dunkirk, N. Y.*

John B. Otto, C. E., Civil Engineer,.....*Williamsport, Pa.*

*Richard Prescott, M. E., late Sanitary and Steam Heating Engineer.,.. .....478 Broadway, *Albany, N. Y.*

Spencer V. Rice, C. E., 233 South New St.....*Bethlehem, Pa.*

Charles G. Roebling, C. E., President of John A. Roebling's Son's Wire Rope Manufacturing Company,.....*Trenton, N. J.*

*Charles F. Ropes, M. E., Hardware Merchant,.....*Sacramento, Cal.*

Richard Schermerhorn, C. E., Engineer and Superintendent of Prospect Park and Coney Island Railroad, 183 Prospect Place, *Brooklyn, N. Y.*

Russell D. Walbridge, C. E., Assistant Manager, Wailuku Plantation,.. .....*Wailuku, Sandwich Islands.*

Thomas M. Williamson, M. E., Superintendent Spiral Weld Tube Co..... .....*East Orange, N. J.*

Graduates please see request at page 61.

CLASS OF 1872.

WILLIAM A. AIKIN, C. E., A. M., in charge Chicago office of Pittsburgh Testing Laboratory.... .....The Rookery, *Chicago, Ill.*

JOHN F. ALDEN, C. E., Proprietor Rochester Bridge and Iron Works,..... .. ..*Rochester, N. Y.*

GEORGE BURNHAM, JR., C. E., Treasurer of Barr Pumping Engine Co.,..... .....500 North Broad Street, *Philadelphia, Pa.*

WILLIAM H. BURR, C. E., Professor of Engineering Harvard University and Consulting Engineer..... .....*Cambridge, Mass.*

W. LEE CHURCH, C. E., Westinghouse, Church, Kerr & Co.,..... ....17 Cortlandt St., *New York City.*

*F. GARCIA Y GARCIA, C. E.. .....406 State St., *Lansingburgh, N. Y.*

HARVEY M. GEER, C. E., Paper Manufacturer,.....*Ballston, N. Y.*

GEORGE H. LEA, C. E., Civil Engineer,.....*Redlands, Cal.*

GRAHAM MACFARLANE, C. E., Receiver Breckenridge Co. (Limited),..... ....*Louisville, Ky.*

ELIAS P. MANN, C. E., Fiduciary Agent,.. .....*Troy, N. Y.*

WILLIAM MARLING, C. E., Intercolonial Railway,.....*Moncton, N. B.*

DAVID REEVES, C. E., President of the Phœnix Iron Co.,..... ....410 Walnut Street, *Philadelphia, Pa.*

WILLIAM B. SHERMAN, C. E., With Corliss Steam Engine Co..... ....*Providence, R. I.*

ELLERY STOWELL, C. E., Attorney-at-Law.....*Denver, Col.*

ALEXANDER J. SWIFT, A. M., C. E., Chief Engineer, Delaware & Hudson Canal Company, ...*Albany, N. Y.*

ALFRED WALTER, C. E., General Manager N. Y. L. E. & W. Railroad,.... ....*New York.*

JONAS F. YOUNG, C. E., Assistant Engineer Adirondack and St. Lawrence R. R..... ....*Prospect, N. Y.*

CLASS OF 1873.

ARTHUR L. BAKER, C. E., Professor of Mathematics, University of Rochester,. ....*Rochester, N. Y.*

*JAMES E. BELL, C. E., late U. S. Engineer and General Superintendent of the Construction of Locks, &c.,.....*Cincinnati, O.*

*ABRAHAM BLUN, B. S., C. E., Merchant,.....*New York City.*

*FRED M. BRYANT, C. E., late Assistant Engineer on the Hoosick Tunnel, ...*North Adams, Mass.*

Graduates please see request at page 61.

CHARLES CAMPBELL, C. E., Secretary Hecla Iron Co.....*Ironton, O.*
JOHN H. CURTIS, C. E., Civil Engineer,.....*Benton Station, St. Louis, Mo.*
JAMES DUANE, C. E., Assistant Engineer on the Croton Water Works,.... ..... 31 Chambers Street, *New York City.*
ARTHUR J. FRITH, C. E., with C. W. Hunt & Co., 10 W. 29th St. ....*New York City.*
CHARLES P. HARRIS, C. E., Treasurer and General Manager Harris Manufacturing Co.,.....*Rutland, Vt.*
*JOHN G. HUMPHREYS, C. E., Assistant Engineer,.....*Hartford, Conn.*
NORMAN B. KELLOGG, C E., Resident Engineer N. Y. and C. Div. of D. and H. C. Co.,.....*Whitehall, N. Y.*
THOMAS J. LONG, C. E., Union Bridge Co. of New York,..... .....68 Laclede Building, *St. Louis.*
MANUEL A. PELAEZ, A. B., C. E., Havana Water Works,..... .....Galiano 17, *Havana, Cuba.*
B. WALKER PETERSON, A. M., C. E., Member of Caldwell & Peterson Manufacturing Company.....*Wheeling, W. Va.*
JAMES REED, Ph. B., C. E., Superintendent of Western Penn. Division of Pennsylvania Railroad,.....*Reading, Pa.*
WILLIAM H. REEVES, C. E., Superintendent, Phœnix Iron Company..... .....*Phœnixville, Pa.*
PEDRO J. SOSA, C. E., formerly Chief of Technical Control and Topographical Department of the Panama Canal, *Panama, U. S. of Colombia, S. A.*
THEODORE STEINACKER, C. E., Sup't Wyatt Park Electric Railway ....*St. Joseph, Mo.*
DANIEL A. TOMPKINS, C. E., Engineer "The D. A. Tompkins Co.", Contractors Cotton Mills and Cotton Seed Oil Mills, Vice President Charlotte Oil and Fert. Co., and Gate City Oil Co., and General District Agent Westinghouse Electric and M'f'g Co.,.....*Charlotte, N C.*
*HERMAN VOORHEES, C. E., late Fellow of Chemistry in Johns Hopkins University, ...*Baltimore, Md.*
T. CHESTER WALBRIDGE, C. E., Hancock St.....*Germantown, Pa.*

CLASS OF 1874.

JAMES N. CALDWELL, Jr., C. E., Real Estate.... ....*Carthage, Hamilton Co., O.*
GEORGE W. CARNRICK, C. E., Reed & Carnrick, Manufacturing Chemists, 447 Greenwich St.....*New York, N. Y.*

Graduates please see request at page 61.

LYMAN E. COOLEY, C. E., Cooley & Howells, Civil Engineers; Drainage Commissioner,.....169 La Salle St., *Chicago, Ill.*

WILLIAM J. FABIAN, C. E., Cashier of the Chicago, Burlington & Quincy Railroad Co.,.....209 Adams St., *Chicago, Ill.*

FRANK L. FORD, C. E., State Mutual Life Assurance Co., 89 Euclid Avenue, ...*Cleveland, O.*

ALEXANDER P. GEST, C. E., Superintendent Belvidere Division P. R. R.... .....*Lambertville, N. J.*

*GEORGE S. GRIFFEN, C. E., Manufacturer,.....*Phœnixville, Pa.*

WILLIAM P. MASON, C. E., B. S., M. D., Professor of Analytical Chemistry in Rensselaer Polytechnic Institute, ...*Troy, N. Y.*

HARRY D. PATTISON, C. E., Solicitor of Patents,..12 First St., *Troy, N. Y.*

WILLIAM H. POWLESS, C. E., Mining Engineer,.....*Alma, Park Co., Col.*

ENRIQUE C. ZEGARRA, C. E., Assistant Engineer on the Panama Canal,.... .....*Panama, U. S. of Colombia, S. A.*

CLASS OF 1875.

R. EDWARD BALL, C. E., Electrician, Ball Electric Light Co.,..... ..... 382 Second Avenue, *New York City.*

ADOLFO E. BESOSA, C. E., Engineer..... *Guayaquil, Ecuador*

HENRY L. BINSSE, C. E., Joint proprietor of the Newark Machine Tool Works,..... *Newark, N. J.*

JAMES L. BREESE, C. E.,.....*Tuxedo Park, N. Y.*

CARLOS F. CARBONELL, C. E., Cashier Hidalgo & Co., Bankers,..... ..... *Havana, Cuba.*

WALTER E. DAUCHY, C. E., Assistant Superintendent of lines of C. R. I. and P. R. R. west of Missouri River.....*Topeka, Kas.*

EDWARD W. ECKERT, C. E., General Manager Construction Co. West Side Elevated R. R.,.....*Chicago, Ill.*

*JOHN A. FERRISS, JR., C. E., late Assistant Engineer on Improvement of Missouri River Navigation,.....*Council Bluffs, Ia.*

TUCKER H. FISHER, C. E., U. S. Engineer Department, Mouth of St. John's River, Florida, on Improvement of Harbor,..... .....*Fort George, Duval Co., Florida.*

*WILLIAM L. FOX, C. E., late President of the Foxburg, Petersburg and Clarion Railroad,.....*Foxburg, Pa.*

*CHARLES T. JUDSON, C. E., Merchant, ...*Lansingburgh N. Y.*

Graduates please see request at page 61.

WILLIAM G. KAY, C. E., Consulting Engineer Vegetable Oil Factory Construction, ... *Rock Hill, S. C.*

EDWARD V. Z. LANE, C. E., Treasurer of Mapes–Formula and Peruvian Guano Company, ... 158 Front Street, *New York City.*

HENRY C. LAY, C. E., U. S. Mineral Surveyor, ... *Telluride, Col.*

*WILLIAM B. MAXWELL, C. E., ... *Rochester, N. Y.*

FRANK POND, C. E., Engineer Rochester Bridge and Iron Works, ... *Rochester, N. Y.*

HARRY L. RICHARDSON, C. E., Engineer, ... *Billings, Montana.*

PALMER C. RICKETTS, C. E., Director of and William Howard Hart Professor of Rational and Technical Mechanics in Rensselaer Polytechnic Institute; Consulting Engineer, ... *Troy, N. Y.*

*FRANK L. ROWLAND, C. E., late Assistant Engineer, East River Bridge, ... *Brooklyn, N. Y.*

H. DE WITT SMITH, C. E., Division Engineer Texas and Pacific R. R., ... *Marshall, Texas.*

*JOSEPH R. UNDERWOOD, C. E., late Civil Engineer, ... *Louisville, Ky.*

JOHN A. L. WADDELL, C. E., B. A. Sc., Ma. E., Consulting Bridge Engineer, ... Keith & Perry Building, *Kansas City, Mo.*

JACOB T. WAINWRIGHT, C. E., Vice President of the Drake & Stratton Co., Limited; Engineers and Contractors, ... *Pittsburgh, Pa.*

GEORGE B. WELLINGTON, C. E., Attorney and Counsellor at Law, ... *Troy, N. Y.*

CLASS OF 1876.

*WILLIAM M. ALLAIRE, C. E., Engineer U. S. Electric Light Co., ... 358 West Thirty-Second Street, *New York City.*

JAMES C. ANDERSON, C. E., General Freight and Passenger Agent, N. Y., O. & W. R. R., ... 16 and 18 Exchange Place, *New York City.*

ARTHUR G. BAKER, C. E., Assistant Engineer on C. M. & St. P. R. R., ... Room 5 Chamber of Commerce, *Milwaukee, Wis.*

EDWARD A. BURDETT, C. E., Manufacturer, ..397 Superior St., *Chicago, Ill.*

EDWARD C. CARTER, C. E., Principal Assistant Engineer, C. & N. W. R. R., ... *Chicago, Ill.*

JOSIAH R. T. DAVIS, C. E., General Manager Telephone Company, ... *Harrisburgh, Pa.*

S. WATERS FOX, C. E., U. S. Division Engineer in charge Missouri River Improvement, ... *St. Joseph, Mo.*

Graduates please see request at page 61.

Isaac W. Frank, C. E., President and General Manager of the Frank Kneeland Machine Co., ...*Pittsburgh, Pa.*
Harold A. Freeman, C. E., Merchant, 1713 Vine Street, *Philadelphia, Pa.*
Edward G. Geuder, C. E., Coal Operator,.....*Cleveland, O.*
Arturo Guerra, C. E., Government Assistant Engineer,.....*Porto Rico.*
William Henderson, C. E., Assistant Librarian, Young Men's Association, ...*Troy, N. Y.*
Joseph B. Hoeing, C. E., Assistant Engineer on the Geological Survey of Kentucky, ...*Lexington, Ky.*
William W. Huntington, C. E., Superintendent of Eagle Bird Mines..... .....*Red Cliff, Col.*
Lay Huntley, C. E., with Terminal Co. Union Pacific R. R.,..... .... *Omaha, Neb.*
John P. Kelly, C. E., Resident Engineer, New York State Canals,..... .....*Troy, N. Y.*
James C. Kingsley, C. E., M. E., Mining Engineer,.....*Silverton, Col.*
George O. Knapp, C. E., President Equitable Gas and Fuel Co..... .....99 Lake St., *Chicago, Ill.*
Edward J. Landor, C. E., Chief Engineer of the Wrought Iron Bridge Company,..... .....*Canton, O.*
Samuel B. Low, C. E.,.....342 Produce Exchange, *New York City.*
Souichiro Matsmoto, C. E., Mining Engineer, Kai Taku Shi, ...*Saporo, Ishakara, Japan.*
John McLean, C. E., M. D., Physician,..... ..... *Moorhead, Minn.*
John W. Nier, C. E., Hydraulic Engineer,.....*St. Louis, Mo.*
*John B. Parkinson, C. E., Assistant U. S. Engineer,.....*St. Paul, Minn.*
Charles S. Pease, C. E., Brush Electric Light Co.,.....*Cleveland, O.*
*De Forest Pruyne, C. E., late Assistant U. S. Engineer,....*Chicago, Ill.*
Henry C. Shaw, C. E., Chief Engineer Lewis Foundry and Machine Co.,... ....*Pittsburgh, Pa.*
Charles Sooysmith, C. E., Sooysmith & Co., Contracting Engineers, ...2 Nassau Street, *New York City.*
E. Ray Thompson, C. E.,.....*Troy, N. Y.*
Morris S. Verner, C. E., Supervisor P. V. H. Division, P. R. R..... ....939 Penn Avenue, *Pittsburgh, Pa.*
Thomas H. Walbridge, C. E., Real Estate Broker,..... .....320 Summit St., *Toledo, O.*

Graduates please see request at page 61.

AARON J. ZABRISKIE, C. E., Engineer Gettysburgh Monument Commission, ...23 Fifth Avenue, *N. Y. City.*

CLASS OF 1877.

J. FRANKLIN ALDRICH, C. E., Member of the U. S. House of Representatives, ...*Chicago, Ill.*

CHARLES G. AUERBACH, C. E., U. S. Coast Survey, ...Army Building, *New York City.*

ARTHUR J. BEST, C. E., Real Estate and Loans Conveyance and Notary Public .....45 Symes Block, *Denver, Col.*

*CODDINGTON BILLINGS, Jr., C. E., Banker, ...*Independence, Kan.*

L. HARVIE BLANTON, C. E., of Blanton, Watson & Co., Millers,.....*Indianapolis, Ind.*

AUGUSTUS O. BOSTROM, C. E., Mechanical Engineer and Draughtsman,.....121 Seventh Street, *Washington, D. C.*

JOSEPH BUSHNELL, Jr., C. E., Engineer of Warden Co.,...*Germantown, Pa.*

*WILLIAM H. BYRAM, C. E., Civil Engineer.....*Kansas City, Mo.*

DANIEL W. CHURCH, C. E., Consulting Engineer,.....Monadnock Building, *Chicago, Ill.*

CHESTER B. DAVIS, C. E., Hydraulic and Sanitary Engineer,..... Room 1627 Monadnock Building, *Chicago, Ill.*

WILLIAM P. DENEGRE, C. E., Manufacturer, A. J. Cameron & Co.,.....American and Dauphin Sts., *Philadelphia, Pa.*

ALBYN P. DIKE, C. E., Merchant,.....*Omaha, Neb.*

HOWARD N. ELMER, C. E., Manager Western Office of the New Jersey Steel and Iron Co., Phœnix Building.....*Chicago, Ill.*

HENRY R. GRIFFEN, C. E., General Manager of the Griffen Enamel Brick Co.,.....*Phœnixville, Pa.*

CHARLES G. GRIFFITH, C. E., General Agent United Smelting and Refining Company.....*Helena, Mon.*

THOMAS T. JOHNSTON, C. E., Principal Assistant Engineer Chicago Drainage Commission,.....Rialto Building, *Chicago, Ill.*

ANTONIO LAVANDEIRA, C. E., Consulting Engineer,.....15 William Street, *New York City.*

GEORGE T. NELLES, C. E., Contracting Engineer, Secretary Nebraska & Colorado Stone Co.,.....*Denver, Col.*

WILLIAM A. NICHOLSON, C. E., Ball Electric Light Co., *Sylvan Lake, N. Y.*

Graduates please see request at page 61.

Adolphus W. Raht, C. E., Stock Raiser,..... *Gainesville, Cook Co., Tex.*
Robert R. Singer, C. E., Architect,.....83 Water Street, *Pittsburgh, Pa.*
Seymour W. Tullock, C. E., Post Office Department, .. *Washington, D. C.*
W. Gedney Wallbridge, C. E.,.....*Litchfield, Conn.*
Joseph E. Waltz, C. E., Civil Engineer and Surveyor,.. .. ..
.....524 Hickory Street, *Dayton, O.*
Charles G. Weir, C. E., U. S. Engineer,.....
.....Tweddle Building, *Albany, N. Y.*
Clifton G. Williams, C. E., Assistant Engineer, Union Pacific Railroad,..
.....*St. Paul, Minn.*
Horace G. Young, C. E., Second Vice-President Delaware & Hudson Canal Co..... ...*Albany, N. Y.*

CLASS OF 1878.

W Irving Babcock, B. S., C. E., Manager Chicago Ship Building Co.,...
....*Chicago, Ill.*
Clarence M. Barber, C. E., Superintenden National Carbon Co.,.....
.... *Cleveland, O.*
Robert R. Chadwick, C. E., Insurance Agency,..... ....
.....Room 10, Tweddle Building, *Albany, N. Y.*
Harry B. Duane, C. E., Assistant Engineer, Light House Department, XIIIth District,.... .....*Tompkinsville, Staten Island, N. Y.*
George S. Davison, C. E., Wilkins & Davison, Civil Engineers,. .....
.....Westinghouse Building, *Pittsburgh, Pa.*
John Ewens, C. E., U. S. Assistant Civil Engineer, Mississippi River Com.
.... *Symmesport, La.*
Albert C. Fowler, C. E., LL. B., Patent Attorney,.... .....
..... .Bank of Commerce Building, *St. Louis, Mo.*
Eugenio de Lacerda Franco, C. E., Coffee Planter,.....
.....*Araras, San Paulo, Brazil.*
George E. Fritcher, C. E., Ass't Chief Engineer Costa Rica Railroad,...
.....care M. C. Keith, *Port Limon, Costa Rica.*
Walter A. Gearn, C. E., Fort Scott, Gulf and Texas R. R.....
.....*Fort Scott, Kansas.*
Frederick G. Goetzmann, B. S., C. E., Colorado Midland R. R. Co.,.....
....*Colorado Springs, Col.*
Joseph S. Greene, C. E., Consulting Engineer,.....*Denver, Col.*

Graduates please see request at page 61.

KANAME HARAGUCHI, C. E., Professor in University of Tokio, and Civil Engineer to the government of Japan,.....*Tokio, Japan.*

SEIJIRO HIRAI, C. E., Chief Engineer of Poronai Railroad,..... .....*Sapporo, Japan.*

HARRY S. HODGE, C. E., President of Samuel F. Hodge & Co. Machine Manufacturers.....320 Atwater Street, *Detroit, Mich.*

WILLIAM H. MCKNEW, C. E., Merchant..... .....933 Pennsylvania Ave., *Washington, D. C.*

DANIEL MCLAREN, C. E., General Superintendent Mobile & Ohio Railroad.....*Mobile, Ala.*

PAUL S. MERRIFIELD, C. E., American Meter Company,..... .....512 West Twenty-Second Street, *New York City.*

HENRY B. PATTEN, C. E., Division Engineer Wyoming Division, Union Pacific Railroad.....*Cheyenne, Wy.*

*CHARLES F. POTTER, C. E., U. S. Division Engineer for the Missouri River Commission .. ..*Omaha, Neb.*

ALPHEUS T. SABIN, C. E., Chief Engineer N. N. and M. V. Co. (W. D.) and Ohio Valley R. R.....*Louisville, Ky.*

JUAN SEMINARIO, C. E., Civil Engineer.....*Piura, Peru.*

ALBERT J. SELIGMAN, C. E., Mining Engineer,.....*Helena, Mont.*

EDWARD C. SHANKLAND, B. C. E., C. E., Chief Engineer World's Columbian Exposition,.....The Rookery, *Chicago, Ill.*

RICHARD E. SHAW, C. E., City Engineer.....*Charlottesville, Va.*

WILLARD F. SHEPHERD, C. E., M. D., Physician,.....*Glendale, O.*

CHARLES R. SMITH, C. E., Chief Engineer Yakima Irrigation Co.,..... .....*Kiona, Yakima Co., Washington.*

HERMAN STUTZER, JR., C. E., Grain Broker,..... ..... 115 Produce Exchange, *New York City.*

GEORGE E. THACKRAY, C. E., with Cambria Iron Co.....*Johnstown, Pa.*

FRANK W. TUTTLE, C. E., Tuttle & Pike, Civil Engineers..*Kansas City, Mo.*

EDMUND F. VAN HOESEN, C. E., Resident Engineer, New York Central & Hudson River Railroad Co.,.....*Rochester, N. Y.*

CHARLES WIGGINS, JR., C. E., Barnett's Quarry and Brick Works..... .....South Newstead Ave., *St. Louis, Mo.*

FREDERICK A. YEAGER, C. E., Columbia Iron and Steel Co.,..... .....*Uniontown, Pa*

Graduates please see request at page 61.

CLASS OF 1879.

KENNETH ALLEN, C. E., Hydraulic Engineer,.....*Olean, N. Y.*
ROBERT R. BRIDGERS, C. E., Supt. N. C. Div. Richmond and Danville R. R., ... *Durham, N. C.*
HENRY N. BRINSMADE, C. E.,...69 West Fiftieth St.,.....*New York City.*
CHARLES W. CAMPBELL, C. E., City Engineer..... ...*St. Joseph, Mo.*
WILLIAM H. COURTENAY, C. E., Principal Assistant Engineer, Louisville and Nashville Railroad,..... ...*Louisville, Ky.*
ELIPHALET W. CRAMER, C. E., Manager Bucyrus Steam Shovel and Dredge Company.....The Rookery, *Chicago, Ill.*
GEORGE H. CUSHMAN, C. E., Civil Engineer and Contractor,... ....*Chattanooga, Tenn.*
JOHN H. EMIGH, C. E., Assistant in Geodesy and Mathematics, Rensselaer Polytechnic Institute.,..... .....Locust Ave., *Troy, N. Y.*
WILLIAM F. ENDRESS, C. E., Contractor,.....*Jamestown, N. Y.*
R. MORLEY HARISON, C. E., ...99 Douglas St., *Glasgow, Scotland.*
EDWARD A. HERMANN, C. E., Assistant to City Engineer,....*St. Louis, Mo.*
HENRY C. JENNINGS, C. E., Jennings & Harding, Engineers and Contractors, ...*Denver, Col.*
JAMES M. JOHNSON, C. E., President and Chief Engineer, Louisville Bridge and Iron Company,.....943 West Walnut Street, *Louisville, Ky.*
CONRAD B. KRAUSE, C. E., Engineer of the Brown Hoisting and Conveying Co..... ....*Cleveland, O.*
NELSON P. LEWIS, C. E., A. B., Assistant Engineer Department of City Works, Room 33 Municipal Building,.....*Brooklyn, N. Y.*
FRANK E. PLATT, C. E., Superintendent of Blast Furnace....*Scranton, Pa.*
HENRY W. POTTER, C. E., Read & Campbell, Engineers. *City of Mexico, Mex.*
CHARLES T. RAYMOND, C. E., Superintendent Lockport Pulp Co.,..... ....*Lockport, N. Y.*
WILLIAM B. RIDGELY, C. E., Vice-Pres't Springfield Iron Co., *Springfield, Ill.*
JOAQUIM DE SALLES, C. E., Civil Engineer,... *Campinas, San Paulo, Brazil.*
WILLIAM G. SHARP, C. E., Superintendent Pleasant Valley Coal Co.,..... ....*Castle Gate, Utah.*
*BENJAMIN V. SIMPSON, C. E., Real Estate and Loans,.....*Winona, Minn.*
CHARLES F. STOWELL, C. E., Member of the American Engineering and Inspection Association,.... ....*Albany, N. Y.*

Graduates please see request at page 61.

ALFRED A. STUART, C. E., Engineer of Maintenance and Construction Brooklyn Elevated R. R., ... *Brooklyn, N. Y.*

JOHN A. B. TOMPKINS, C. E., Civil Engineer, ... *Kalispiel, Mont.*

JOHN TOWNSEND, C. E., Iron Works, .. 460 Portland Ave., *St. Paul, Minn.*

WILLIAM WALLER, JR., C. E., Manufacturer, ... 164 La Salle Street, *Chicago, Ill.*

WILLIAM G. WILKINS, C. E., Civil Engineer, Wilkins & Davison, Civil and Mining Engineers, Westinghouse Building ..... *Pittsburgh, Pa.*

FRED N. WILLSON, C. E., Professor of Descriptive Geometry, Stereotomy and Drawing, Princeton College, ... *Princeton, N. J.*

DON CARLOS YOUNG, C. E., Civil Engineer and Architect, and Instructor in University of Deseret, ... *Salt Lake City, Utah.*

*FERAMORZ L. YOUNG, C. E., late Missionary to Mexico, ... *Salt Lake City, Utah.*

CLASS OF 1880.

FRANK LESLIE CLARK, C. E., Wm. Clark's Sons & Co., Iron Manufacturers, ... *Pittsburgh, Pa.*

ARTHUR COBB, C. E., Engineer Snead & Co. Iron Works ... *Louisville, Ky.*

ALBERT NEWMAN CONNETT, C. E., Chief Engineer Baltimore City Passenger Railway Co ..... *Baltimore, Md.*

WADE CONVERSE, C. E., Assistant Div. Supt. N. Pacific R. R., *Ashland, Wis.*

WILBERFORCE BEECHER HAMMOND, C. E., Manager of the Sales Department of Ticonderoga Machine Co ..... 126 Liberty Street, *New York.*

GUSTAVE KAUFMAN, C. E., Ferris, Kaufman & Co., ... *Pittsburgh, Pa.*

WYNKOOP KIERSTED, JR., C. E., Hydraulic Engineer, ... Keith & Perry Building, *Kansas City, Mo.*

*WILLIAM JOHN KING, C. E., late Assistant Division Supervisor, P. R. R., ... *Chambersburg, Pa.*

STRICKLAND L. KNEASS, C. E., Mechanical Engineer, with Wm. Sellers & Co., ... 1600 Hamilton Avenue, *Philadelphia, Pa.*

LUIZ GONZAGA DA SILVA LEME, C. E., Director, Bragantina R. R., ... *Braganza, San Paulo, Brazil.*

C. ROLLIN MANVILLE, C. E., Superintendent Pennsylvania Div. D. & H. Canal Co., ... *Carbondale, Pa.*

HUGH PLUMMER MCCLINTOCK, C. E., McClintock & Irvine, Paint Manufacturers, ... South Ave., *Allegheny, Pa.*

Graduates please see request at page 61.

FRANK C. OSBORN, C. E., Consulting Engineer, King Iron Bridge and Manufacturing Co., ... 452 The Arcade, *Cleveland, O.*

JAMES W. PEARL, C. E., formerly Chief Engineer Massillon Bridge Co..... ..... *Massillon, O.*

JOSEPH ALLEN POWERS, C. E., Manager Glens Falls Electric Railway..... ..... *Glens Falls, N. Y.*

JULIO SAMPER, C. E. Commission Merchant,..62 Wall St., *New York City.*

PRESTON KING YATES, C. E., General Inspector 155th Street Viaduct..... ..... 236 West Fifty-fifth Street, *New York, N. Y.*

FREDERICK STAFFORD YOUNG, C. E., Assistant to President Gilbert Car Manufacturing Co., ... *Troy, N. Y.*

CLASS OF 1881.

GARNETT D. BALTIMORE, C. E., Assistant Engineer, Public Improvement Commission..... *Troy, N. Y.*

RICHARD P. BLOSS, C. E., Resident Engineer, Hudson River Pulp Company. ..... *Palmers Falls, N. Y.*

WILLIAM H. BREITHAUPT, C. E., Consulting Civil Engineer..... ..... 18 Broadway, *New York City.*

WILLIAM B. CABOT, C. E.,..... *Brattleboro, Vt.*

PALMERIO DE C. CANTANHEDE, C. E., Civil Engineer,..... *Rio Janeiro.*

JOHN S. CHAMBERS, C. E.,..... P. O. Box 217, *Trenton, N. J.*

TOWNSEND V. CHURCH, C. E., Chief Chemist to Illinois Steel Company,.... .... *Chicago, Ill.*

FRANCISCO DE A. CINTRA, C. E., Superintendent Tarbati Gas and Mineral Oil Co.,..... ..... *Tarbati, Brazil.*

GEORGE W. G. FERRIS, JR., C. E., Inspecting Engineer, G. W. G. Ferris Jr. & Co., Inspecting Engineers,.. Hamilton Building, *Pittsburgh, Pa.*

JOHN J. HENRY, C. E., Henry, Bayard & Co.,..... ....2931 North Broad Street, *Philadelphia, Pa.*

VIRGIL H. HEWES, C. E., The Waddell-Entz Co.,..... *Bridgeport, Conn.*

*TARO ISHIGRO, C. E., Civil Engineer,..... *Tokio, Japan.*

GEORGE A. JUST, C. E., Lewison & Just, Consulting Engineers and Contractors... ..... 90 Nassau St., *New York City.*

ARTURO N. MENOCAL, C. E.,.... ..... *Havana, Cuba.*

WILLIAM S. MCCORD, C. E., Secretary and Treasurer, Elmira Bridge Co.,.. ....18 Broadway, *New York City.*

Graduates please see request at page 61.

ELMORE B. MCNEILL, C. E., ... *Litchfield, Conn.*
THOMAS H. RAINSFORD, C. E., Planter, ... *Trenton, S. C.*
COMMODORE P. RUPLE, C. E., Cotton Planter..... *Wilson's Point, La.*
HENRY W. VERNER, C. E., with Kirkpatrick Co., (limited), *Pittsburgh, Pa.*
THOMAS D. WHISTLER, C. E..... *Baltimore, Md.*

CLASS OF 1882.

ERNESTO J. BALBIN, C. E., First Assistant Engineer Havana Water Works,. ..... *Havana, Cuba*
GEORGE R. BAUCUS, C. E., General Manager Pelican Mining Co..... ..... *Hermoso, N. M.*
MCCOSKRY BUTT, C. E., Stock Exchange,..... *New York City.*
JAMES H. COVODE, C. E., General Manager K. C., F. S. & S. R. R..... ..... *Neosho, Mo.*
ALVIN E. DEAL, C. E., D. L. & W. R. R,..... *Scranton, Pa.*
ELVIN A. DEAL, C. E., D. L. & W. R. R.,..... *Scranton, Pa.*
EDWIN FORD, C. E., Decorative Artist, 110 Boylston Street,. *Boston, Mass.*
INDEPENDENCE GROVE, C. E., Superintendent Colorado Coal and Iron Co.,... ..... *Pueblo, Col.*
LOUIS W. GURLEY, C. E., with W. & L. E. Gurley, Mathematical Instrument makers, ... *Troy, N. Y.*
STEPHEN T HAYT, JR., C. E., Engineer Fall Brook Coal Co.,..... ..... *Corning, N. Y.*
CONWAY B. HUNT, C. E., Asst. U. S. Engineer,..... ..... 2136 Penna Ave., *Washington, D. C.*
LEWIS L. JENKINS, C. E., Electrical Engineer,.... *Great Barrington, Mass.*
LOUIS E. LAFLIN, C. E.,..... 1614 Michigan ave., *Chicago, Ill.*
O. JULIUS MARSTRAND, C. E., Consulting Engineer, 18 Broadway,..... ..... *New York, N. Y.*
José D. MASSES, C. E., Civil Engineer, ... *Remedios, Cuba.*
THOMAS E. NEWBOLD, C. E., Assistant U. S. Engineer,..... .... Commercial Bank Building, *Albany, N. Y.*
FREDERICK ROSENBERG, JR., C. E., Chief Engineer and General Manager Colorado Coal and Mining Co.,..... *Pueblo, Col.*
CHARLES S. WESTON, C. E., General Agent Real Estate Department, Delaware & Hudson Canal Co.,..... *Scranton, Pa.*

Graduates please see request at page 61.

CLASS OF 1883.

FRANKLIN H. BOWEN, C. E., Ordnance Department, Bethlehem Iron Works, ...*South Bethlehem, Pa.*

THURBER A. BROWN, C. E, Tobacconist,.....*Elmira, N. Y.*

ALBERT W. BUEL, C. E., Bridge Engineer L. S. & M. S. R. R.,..... .....*Cleveland, O.*

GUY H. ELMORE, C. E., Cooley & Elmore, Ore Dressing Machinery,..... .....*Joplin, Mo.*

E. COURTLAND GALE, C. E., Fiduciary Agent,..... ...*Troy, N. Y.*

JAMES C. HALLSTED, JR., C. E., Inspecting Engineer, of G. W. G. Ferris, Jr. & Co., ...The Rookery, *Chicago, Ill.*

EDGAR B. KAY, C. E., Superintendent Bellwood Electric Light and Water Works Companies,.....*Bellwood, Pa.*

JASON E. LIPPINCOTT, C. E., Secretary and Treasurer Lippincott Glass Co., ...*Alexandria, Ind.*

*CHARLES S. PRATT, C. E., late Assistant Engineer, Burlington & Missouri Railroad,.....*Lincoln, Neb.*

ROBERT J. PRATT, C. E., Manager Electric Manufacturing Co.,..... .....*Greenbush, N Y.*

ALFRED H. RENSHAW, C. E., Secretary and Treasurer Trojan Car Coupler Co.....*Troy, N. Y.*

ARTHUR H. STORRS, C. E., Coal Dept. D. L. & W. R. R.,....*Scranton, Pa.*

HENRY VIER, C. E., Assistant Engineer, N. Y. C. & H. R. R. R.,..... .....*Rochester, N. Y.*

JOSEPH A. WELLS, C. E., with Troy Iron and Steel Co.,..... .....171 Second Street, *Troy, N. Y*

*J. FRANCIS WILLIAMS, Ph. D., C. E., B. S., M. A., late Assistant Professor of Geology, Cornell University..... .....*Ithaca, N. Y.*

CLASS OF 1884.

WILLIAM A. AYCRIGG, C. E., Civil Engineer,..... .....102 Chambers Street, *New York, N. Y.*

FRANCIS H. BAINBRIDGE, C. E., Assistant Engineer, Edgemoor Bridge Works.....*Wilmington, Del.*

*JOHN J. CHISLETT, C. E., Supervisor, Div. No. 3, P. & E. R. R., *Kane, Pa.*

FRANK CHRYSLER, C. E., Van Zile & Chrysler Bridge and Boiler Works.... .....*Albany, N. Y.*

Graduates please see request at page 61.

John D. Colby, C. E., Engineer and Contractor..... *Troy, N. Y.*
Charles W. Crockett, A. M., C. E., Assistant Professor of Mathematics and Astronomy, Rensselaer Polytechnic Institute,..... *Troy, N. Y.*
William W. Cummings, C. E., Public Improvements Commission,..... ..... *Troy, N. Y.*
Seymour Cunningham, C. E., Oil Producer and Refiner, Paragon Refining Co..... *Washington, D. C.*
Charles H. Davis, C. E., Office of Chief Engineer B. & O. R. R..... ..... *Philadelphia, Pa.*
James G. Durbin, C. E., City Engineer.....6 W. Market St., *York, Pa.*
George R. Elder, C. E., Superintendent Switch Works, of the Johnson Co.,..... *Johnstown, Pa.*
Samuel P. McKinney, C. E., M. D., Physician,..... *Chicago, Ill.*
Marshall G. Moore, C. E., Mining Engineer, Cambria Iron Co..... ..... *Johnstown, Pa.*
Edward L. Painter, C. E., Farmer,..... *Owings Mills, Baltimore Co., Md.*
Charles W. Parks, C. E.,..... ....*Troy, N. Y.*
Manuel P. Quintana, C. E., Assistant Engineer, Ticonderoga Water Works, ... *Ticonderoga, N. Y.*
George L. Rementer, C. E.,.... .....*Philadelphia, Pa.*
Francis Spearman, C. E., President Humphrey Glass Co.,..... ..... *Steubenville, Ohio.*
Harry L. Van Zile, C. E., Van Zile & Chrysler, Bridge and Boiler Works ....*Albany, N. Y.*
Paul Voorhees, C. E., Voorhees & Witmer, Civil Engineers,..... ....*Buffalo, N. Y.*
Montgomery Waddell, C. E., The Waddell-Entz Company,. ....*Bridgeport, Conn.*
Howard M. Wilson, C. E., Taylor, Wilson & Co.,..... ....308 Du Quesne Way, *Pittsburgh, Pa.*
Charles W. Wood, C. E., of D. B. Wood & Sons, Coal Merchants,..... .....113 Common St., *New Orleans, La.*

CLASS OF 1885.

Julian Sargent Allen, C. E., Consulting, Civil and Mechanical Engineer, ...Prospect Ave., *Hartford, Conn.*

Graduates please see reguest at page 61.

JOHN THOMPSON ARNOLD, C. E., with Westinghouse, Church, Ker & Co.,... ..... 156 Lake St., *Chicago, Ill.*

FABRICIANO BOTERO, C E., General Manager Antioquia Railroad,..... ... . *Puerto Berrio, U. S. of Colombia.*

ROBERT A. CAIRNS, C. E., City Engineer..... *Waterbury, Conn.*

ELIAS CHESROWN, C. E., Superintendent of the Bangor Street Electric Railway..... ..... *Bangor, Me.*

DORLON CLARK, C. E., Assistant Engineer New York State Canals,..... .....*Albany, N. Y.*

ANDREW C. CUNNINGHAM, C. E., Member of the American Engineering and Inspection Association,..... .....*Albany, N. Y.*

JUAN F. ECHEVERRIA, C. E., of firm of Echeverria & Metcalf Contractors, ...*San Jose, Costa Rica.*

JOHN C. EDWARDS, C. E., Patent Attorney and Solicitor,..... ....34 School Street, *Boston, Mass.*

GRIFFITH M. ELDRIDGE, Ph. B., C. E., City Engineer,.....*Americus, Ga.*

CLARENCE A. FOWLER, C. E., Assistant Engineer, Norfork and Western Railroad,:..... ....*Nolon, Logan Co., W. Va.*

OVIDIO GIBERGA, C. E., M. E., Engineer, Tellado, Mayol & Co., Cardenas. Cuba,.....*Havana, Cuba,*

THEODORE S. HAIGHT, C. E., Haight & Co., Tanners,....*Ballston Spa, N. Y.*

WILLIAM H. HASSINGER, C. E., Vice President and Manager Alabama Rolling Mill Co.,.....*Birmingham, Ala.*

EUGENE B. HEDDEN, C. E., Civil Engineer and Iron Contractor,..... ....*Newark, N. J.*

JAMES HETZEL, C. E., Assistant Professor of Civil Engineering, Western University of Pennsylvania,.... .....*Allegheny, Pa.*

HENRY W. HODGE, C. E., Chief Engineer of the Union Iron Works,..... .....29 Broadway, *New York, N. Y.*

FRANK C. HUTTON, C. E.,..... .....*The Woodlands, Md.*

CHARLES H. JEWETT, C. E., Engineer's Office, Broadway and Seventh Ave. R. R. Co.,..... .....111 W. 38th St , *New York City.*

EDWARD W. KILBOURNE, C. E., Civil Engineer,..*Albuquerque, New Mexico.*

HENRY A. LA CHICOTTE, C. E., Eastern Manager Wrought Iron Bridge Co., ... .136 Liberty St., *New York, N. Y.*

JESSE LOWE, C. E., Christie & Lowe, Engineers and Contractors,..... ....516 Ashland Block, *Chicago, Ill.*

Graduates please see request at page 61.

EDGAR MARBURG, C. E., Acting Professor in charge of the Department of Civil Engineering in the University of Pennsylvania,. *Philadelphia, Pa.*

DAVID W. MCNAUGHER, C. E., of G. W. G. Ferris & Co.,... *Pittsburgh, Pa.*

LEVERETT S. MILLER, C. E., Chief Engineer and Assistant General Manager St. Paul and Duluth Railway,..... *Duluth, Minn.*

NEIL R. MONTGOMERY, C. E., Assistant Sup't and Engineer, John A. Roebling's Sons Co., ... *Trenton, N. J.*

THORNTON T. PERRY, C. E., Assistant Engineer Union Steel Co.,. *Chicago, Ill.*

MARCUS H. RANNEY, C. E., Manager Calendar Mining and Milling Co.,.... ..... *Denver, Col.*

HENRY M. ROOD, A. B., C. E., with Corydon T. Purdy, Consulting Engineer,..... *Chicago, Ill.*

LUIS DE LA ROSA, C. E., Planter,..... *Mexico.*

JAMES H WHITNER, C. E., George H. Crafts & Co., Bridge Engineers and Contractors,..... ....*Atlanta, Ga.*

CLASS OF 1886.

HUGH ANDERSON, C. E., Assistant Professor of Mechanics, Rensselaer Polytechnic Institute,..... *Troy, N. Y.*

EDWARD B. ASHBY, C. E., Supervisor, Baltimore Division P. R. R.,..... ....*Baltimore, Md.*

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Graduates please see request at page 61.

HENRY M. FAIRCHILD, C. E., Special Agent for Lancashire Insurance Company.... .....25 Pine St., *New York City.*

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ALBERT LOUIS HAUCK, C. E., Superintendent East End Works of Cincinnati Gas Light & Coke Co.,.....*Cincinnati, O.*

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GEORGE S. HUBBELL, C. E., Engineer of Board of Health,...*Buffalo, N. Y.*

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Graduates please see request at page 61.

EDWIN N. SANDERSON, C. E., M. E., Berger & Sanderson, Engineers and Contractors. .....120 Broadway, *New York.*
SAMUEL F. SELDEN, C. E., Selden Brick Co.,.....*Erie, Pa.*
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*ROBERT G. TURKNETT, C. E., late with Chicago & Northern R. R. Co.,.. .....*Chicago, Ill.*
*WILLIAM W. WALKER, C. E., Physician,.....*Philadelphia, Pa.*
VINCENT B. WARD, C. E., Manhattan Oil Co.,.....*Elizabeth, N. J.*
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CLASS OF 1887.

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PEDRO T. AGUILERA, C. E., Chief Engineer Juragua Mining Co.,..... .....*Santiago, Cuba.*
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JOHN A. CLARK, C. E., Civil Engineer,....*Bickley's Mills, Russel Co., Va.*
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THOMAS EARLE, C. E., Assistant Engineer B. and C. Department Pennsylvania Steel Co.,.....*Steelton, Pa.*
GUSTAVUS W. EMORY, C. E., Assistant Engineer, W. N. Y. and P. R. R... .....*Oil City, Pa.*
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GEORGE E. GIFFORD, C. E., Engineer, The King Bridge Co.,..*Cleveland, O.*

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JOHN H. GRAY, C. E., Estrada, Kenyon & Gray, Civil and Mechanical Engineers .....Lewis Block, *Pittsburgh, Pa.*

BRAINERD E. GREGORY, C. E., with Johnson & Morris Steam Heating Co., ...*Brooklyn, N. Y.*

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THOMAS HARROLD, JR., C. E., Resident Engineer, S. A. and M. R. R., ...*Hartsboro, Ala.*

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STEWART JOHNSTON, C. E., Superintendent Pittsburgh Steel Casting Co., ...*Pittsburgh, Pa.*

*HENRY KNICKERBACKER, JR., C. E., late with Knickerbacker Axe and Scythe Works, ... *Ballston Spa, N. Y.*

JOHN M. LOCKHART, C. E., Assistant Manager Lockhart Iron and Steel Co., ... *Pittsburgh, Pa.*

IRVING E. MATTHEWS, C. E., Assistant Engineer, C. C. C. & St. L. R. R., ... *Indianapolis, Ind.*

EDWARD C. MCCOMB, C. E., with Westinghouse Electric Co., ... *Pittsburgh, Pa.*

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RICARDO V. MOLINA, C. E., Assistant Engineer, Remedios & Caibarien R. R. .....*Cuba.*

HALSEY B. POMEROY, C. E., Chief Engineer Monte Christo Mining Company .....*Gutchell, Wash.*

ARTHUR J. ROCKWOOD, C. E., Guthrie & Rockwood, Civil Engineers, ...*Buffalo, N. Y.*

LEWIS H. SPRINGER, C. E., with Pittsburgh Bridge Co., ...*Pittsburgh, Pa.*

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ARCHER C. STITES, C. E., Engineer representing the Phœnix Bridge Co. and the Phœnix Iron Co.,.....The Rookery, *Chicago, Ill.*
CLARK W. THOMPSON, C. E., Duluth & Iron Range R. R.,.... *Tower, Minn.*
ISAAC TORKINGTON, C. E., Civil Engineer,.... .....*Steubenville, O.*
ENRIQUE TOUCEDA, C. E., with Chemical Department, Troy Steel & Iron Company, ...*Troy, N. Y.*
RICHARD G. WAGNER, C. E., Manager Milwaukee Bridge and Iron Works, ...*Milwaukee, Wis.*
JAMES M. WILSON, C. E., Civil and Sanitary Engineer,..... .....1607 Farm St., *Omaha, Neb.*
VICTOR M. WITMER, C. E., Engineer Union Iron and Foundry Co.,..... .....*St. Louis, Mo.*
JOSEPH F. WITMER, C. E., Voorhees & Witmer, Civil Engineers,..... ....*Buffalo, N. Y.*
GEORGE W. WORCESTER, B. S., Professor of Natural and Physical Science, in Browne and Nichols' School,..... .....*Cambridge, Mass.*

CLASS OF 1888.

CASTO AGUIRREGAVIRIA, C. E.,..... .....*Jesus del Monte, Cuba.*
JAMES M. AFRICA, C. E., Civil Engineer,.....*Huntingdon, Pa.*
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CHARLES A. CALDWELL, C. E., Civil Engineer,.....*Macon, Ga.*
EDWARD R. CARY, C. E., Assistant in Geodesy and Instructor in Botany, Rensselaer Polytechnic Institute,.....*Troy, N. Y.*
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VINCENTE F. EGUIGUREN, C. E., Civil Engineer and Planter,..*Piura, Peru.*
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HENRY DE GIVE, C. E., in Charge of Clifton Chemical Works, *Atlanta, Ga.*
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FRANK HARRISON, C. E., Stollburg & Clapp Co.,..... ... .Cherry and Huron Streets, *Toledo, O.*

Graduates please see request at page 61.

ABRAHAM L. A. HIMMELWRIGHT, C. E., General Manager Columbia Granite Co., ... *Middletown, Conn.*

JAMES W. HOWARD, B. L., C. E., Supt. Barber Asphalt Pavement Co., ... 1 Broadway, *New York City.*

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JAMES C. McGUIRE, C. E., in charge of Iron Work under Supervising Architect of Treasury of the U. S. Building at World's Fair, ... *Chicago, Ill.*

VICTOR G. DE MENDOZA, C. E., Civil Engineer, ... *Havana, Cuba.*

JULIO S. MOLINER, C. E., Civil Engineer, ... *Buenos Ayres.*

LUIS E. MUNOZ DEL MONTE, B. S., C. E., Sugar Planter, ... *Ingenio Los Canas, Cuba.*

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CLASS OF 1889.

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Graduates please see request at page 61.

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HERBERT A. JAGGARD, A. B., C. E., Assistant Engineer, Pennsylvania R. R.,
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... .*New York City.*

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....*Chicago, Ill.*

CLASS OF 1890.

CARL F. ADAM, C. E., Superintendent Barber Asphalt Paving Co.,.....
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WILLIAM H. ARNOLD, C. E., with G. W. G. Ferriss & Co.,....*Chicago, Ill.*

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WILLIAM D. CARD, C. E., Crescent Pipe Line Company,.... *Pittsburgh, Pa.*
WILLIAM EASBY, Jr., C. E., Assistant to City Engineer,.. *Waterbury, Conn.*
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CLASS OF 1891.

EDWIN G. ADAMS, C. E., B. and C. Department Pennsylvania Steel Co.,... ..... *Steelton, Pa.*
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Graduates please see request at page 61.

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SAMUEL J. EVA, C. E., Union Iron Works,.....*San Francisco, Cal.*
ELMER S. FARWELL, C. E., Illinois Steel Co.,.....*South Chicago, Ill.*
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CARLOS A. GASTEAZORO, C. E., Civil Engineer,.... *Chinandega, Nicaragua.*
ARTHUR L. GIBLIN, C. E., Assistant in Mechanics, Lawrence Scientific School, Harvard University,.....*Cambridge, Moss.*
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HARRY H. ROUSSEAU, C. E., Assistant Engineer Brooklyn Elevated R. R.,..
.....*Brooklyn, N. Y.*
LAWRENCE ROY, C. E., Assistant Superintendent Watervliet Mills,.....
.....*Troy, N. Y.*
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PAUL L. SCHULTZE, C. E., Estrada, Kenyon & Gray,.....*Pittsburgh, Pa.*
JOHN SHEFFIELD, C. E., with J. W. Sheffield & Co.,.....*Americus, Ga.*
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WILLIAM H. THOMAS, C. E., Calculating Engineer of the Johnson Co.,.....
.....*Johnstown, Pa.*
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..... *New York, N. Y.*
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CLASS OF 1892.

CARLOS C. AROSEMENA, C. E., B. S., Civil Engineer,.....*Panama, S. A.*

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CHARLES E. BIRCH, C. E., Manufacturing Department of the Cincinnati Gas Light and Coke Co., ... West End Works, *Cincinnati, O.*

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ELMER J. BUCKNELL, C. E., W. A. Wood, M. & R. Machine Co., ... *Hoosick Falls, N. Y.*

JAMES BURDEN, C. E., Assistant Engineer N. Y. C. & H. R. R. R., ... *Troy, N. Y.*

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*ALBERT B. COOK, B. S., C. E., Assistant Engineer Ticonderoga Water Works, ... *Ticonderoga, N. Y.*

LEONORD M. COX, A. B., C. E., Bird Eye Coal Company, ... *Jellico, Tenn.*

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MOISE DE LEON, C. E., Assistant Engineer N. J S. & I. Co., *Trenton, N. J.*

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EDWARD E. EMMERICH, C. E., Edison General Electric Co., ... *Schenectady, N. Y*

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ARTHUR V. A. MCHARG, C. E., The Albany Perforated Paper Company, ... *Albany, N. Y.*

JO. DORR MURRAY, C. E., Pennsylvania Steel Co., ... *Steelton, Pa.*

DAN H NELLIS, C. E., Civil Engineer, ... *Girard, Pa.*

Graduates please see request at page 61.

PAUL C. NUGENT, A. B., C. E., H. & T. C. Ry. Co.,.....*Houston, Texas.*
GEORGE C. PLUMMER, C. E., Assistant Engineer Brooklyn Elevated R. R.,.
.....*Brooklyn, N. Y.*
DAN RICE, JR., C. E., Civil Engineer,.....*Denver, Col.*
CHARLES H. RUGGLES, C. E., Edison General Electric Co.,....*Lynn, Mass.*
FREDERICK A. SABBATON, JR., C. E., Assistant in Engineering, Swarthmore College,.....*Swarthmore, Pa.*
CHARLES G. SCHADE, C. E., Keystone Bridge Company,....*Pittsburgh, Pa.*
W. C. H. SLAGLE, C. E., Assistant Engineer Pencoyd Bridge Works,.....
.....*Philadelphia, Pa.*
HARMON M. SMITH, C. E,, Hudson River Water Power and Paper Co.,....
.....*Mechanicville, N. Y.*
ARNOLD H. SUTERMEISTER, C. E., Assistant Engineer N. Y. C. & H. R. R. R.,
.....*Albany, N. Y.*
ARTHUR W. THOMPSON, C. E.,.....*Ottawa, Canada.*
WILLIAM M. WALLACE, C. E., Computer, Bureau of Construction and Repairs, Navy Department,.....*Washington, D. C.*
CHARLES WORTHINGTON, C. E., Instructor in Civil Engineering, University of Pennsylvania,.....*Philadelphia, Pa.*

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*Stanton, Lodowick, Jr. '41

Buffalo.

Albright, Joseph J. '68
Fields, Samuel J. '67
Hubbell, George S. '86
Rockwood, Arthur J. '87
Sikes, George R. '86
Smith, T. Guilford '61
Utley, Charles H. '69
Voorhees, Paul '84
Witmer, Joseph F. '87

Canaan.

*Drowne, Charles '47

Canandaigua.

*Garlinghouse, Leman B. '37

Chatham.

*Bailey William C. '38
*Hulbert, Addison '26

Cherry Valley.

Cox, Araham B., Jr. '67

Claverack.

*Philip, John VanNess '38
Rossman, Augustus '47

Corning.

Hayt, Stephen T., Jr. '82

Cornwall.

*Cromwell, James '61

Cortland Village.

*Clarke, Joseph B. '29

Coxsackie.

Van Bergen, Robert H. '41

NEW YORK—Continued.

Dansville.

*Brodt, John Henry '44

DeKalb Junction.

*Burnett, Leicester '56

Dunkirk.

*Nichols, Edward '71

Elmira.

Brown, Thurber A. '83

Fayetteville.

Collin, David, Jr. '42

Fonda.

*Post, James H. '39

Galesville.

Durham, Anson '40

Glens Falls.

Powers, Joseph A. '80

Greenbush.

Pratt, Robert J. '83

Hastings.

Hyde, Charles B. '41

Hillsdale.

Murray, Jo. D. '92

Hoosick.

*Cotterell, Nathan '41

*Rogers, Horace N. '37

Hoosick Falls.

Bucknell, Elmer, J. '92

Russell, Nathaniel E. '70

Hudson.

*Van Ness, Sherman '36

Islip.

Plumb, James I. '86

Ithaca.

Fuertes, Estevan A. '61

*Pelton, William S. '26

*Williams, J. Francis '83

Jamestown.

Endress, William F. '79

Johnstown.

Snyder, Henry R. '37

Keeseville.

Jeffers, William W. '92

Kinderhook.

Ackley, Calvin '54

Lansingburgh.

*Bradshaw, James W. '50

*Fisher, Charles H. '53

*Garcia, F. Garcia y '72

*Haskell, Stephen E. '45

*Judson, Charles T. '75

Kellogg, Warren T. '61

Quackenbush, John H. '56

*Van Schaick, Augustus P. '39

NEW YORK—CONTINUED.

Little Falls.

Feldmeier, Harvey '92

Lockport.

*Comstock, Daniel O. '29
Raymond, Charles T. '79
Trevor, Frank N. '66

Mechanicville.

Smith, Harmon M. '92

Mellenville.

*Philip, John H. '32

Moreau Station.

*Olmstead, Lemuel G '30

Newburgh.

Van Buren, John D. '60

New Rochelle.

Crosby, Horace '62
*Evans, W. W. '36

New York City.

Adam, Carl F. '90
*Allaire, William M. '76
*Ambler, John G. '33
Anderson, James C. '76
Arnold, Lorenzo M. '37
Auerbach, Charles G. '77
Aycrigg, William A. '84
Bagley, John A. '53
Ball, R. Edward '75
Baum, George '91
*Benedict, Abner '26
Bergen, John J. '86
*Birdsall, James W. '60
*Blun, Abraham '73
Boller, Alfred P. '61
Boller, Frederick J. '69
Breithaupt, William H. '81
Brinsmade, Henry N. '79
Buck, Leffert L. '68
Buel, Richard H. '62
Buel, Samuel, Jr. '65
Butt, McCoskry, '82
Carnrick, George W. '74
Chibas, Eduardo J. '89
Church, W. Lee '72
Collingwood, Francis '55
Cooper, Theodore '58
Davis, Joseph P. '56
Duane, James '73
Escobar, Roberto '57
Estep, Joseph M. '89
Fairchild, Henry M. '86
Farnam, Henry H. '65
Fish, Dean '86
Frith, Arthur J. '73
Gardner, Arthur B. '91
Goicouria, Alberto V. de '71
Goldstein, Max L. '67
*Haddock, Arba R. '62
*Hall, G. Thomas '68
Hammond, Wilberforce B. '80
Haskin, William L. '61

NEW YORK—CONTINUED.

New York City.

Henry, Philips Walter '87
Hodge, Henry W. '85
Howard, James W. '88
Jarrett, Edwin S. '89
Jewett, Charles H. '85
Just, George A. '81
Kellogg, Nathan '41
Kibbe, Augustus Sayre '86
Knap, Joseph M. '58
La Chicotte, Henry A. '85
*Lally, James '61
Lane, Edward V. Z. '75
Lavandeira, Antonio '77
Lesley, Alexander M. '46
Llano, Antonio '90
Loomis, Horace '65
Low, Samuel B. '76
Macdonald, Charles '57
McCord, William S. '81
Mader, Arthur B. '90
Mallory, George B. '67
Mallory, Marshall H. '65
Marstrand, O. J. '82
Mauldin, Thomas S. '91
Merrifield, Paul S. '78
Montony, Liberty G. '90
Packard, Ralph G. '64
Parish, Wainwright '88
*Potter, Clarkson N. '43
Potter, W. S. '90
Powell, William J. '39
Rider, Joseph B. '89
Rothwell, Richard P. '58
*Sage, Russell, 2d '58
Salisbury, James H. '46
Samper, Julio '80
Sanderson, Edwin N. '86
Sanderson, J. Gardner '58
*Sanford, Edward '27
*Schott, C. Ridgely '68
Sedley, Henry '48
*Serrano, Aurelio '60
Sherrerd, Maurice R. '86
*Sherrill, Rush '30
Skilton, James A. '45
Skilton, Julius A. '49
Sooysmith, Charles '76
Starbuck, George H. '40
Stutzer, Herman, Jr. '78
Sutherland, Mosher A. '61
Symington, William N. '61
Thompson, James G. '48
*Thompson, John C. '65
Turner, Daniel L. '91
*Van Rensselaer, Alex. '35
*Van Sinderen, Adrian '47
Waite, Guy B. '88
Wallace, James P. '37
Walter, Alfred '72
Ware, R. Willard '50
*Watkins, Hezekiah '57
White, Alfred T. '65
*White, John H. '40

NEW YORK—Continued.

New York City.

*Whittelsey, Philo D. '34
Wigand, Albert A. '89
Wiley, William H. '66
Yates, Preston K. '80
Zabriskie, Aaron J. '76
Zayas, Octavius A. '86

Niagara Falls.

Whitney, Drake '64

North Argyle.

*Hunt, George M. '66

Nyack.

*Whipple, Charles '37

Old Chatham.

Powell, Jonathan R. '46

Olean.

Allen, Kenneth '79

Palmer's Falls.

Bloss, Richard P. '81

Peekskill.

Wallace, Gurdon B. '40

Poughkeepsie.

Lawlor, Thomas F. '86
*Lent, George B. '38
*Wilkinson, William '30

Plattsburgh.

*Pratt, Ira R. '42

Prospect.

Young, Jonas F. '72

Reynolds Station.

*Miller, Solomon V. R. '41

Rider's Mills.

Rider, Jonathan B. '44
*Rider, Thomas B. '45

Rochester.

Alden, John F. '72
Baker, Arthur L. '73
Ellis, George E. '92
*Kendall, David '38
Kimball, Frederick N. '86
Lawrance, Benjamin R. '68
*Maxwell, William B. '75
Pond, Frank '75
VanHoesen, Edmund F. '78
Vier, Henry '83

Salem.

Fitch, Asa, Jr. '27

Sandlake.

*Fox, Albert R. '30

Saratoga.

*Olmstead, Aaron B. '37

Schaghticoke.

*Devol, Edward '31
*Oakey, James '37
*Small, Thomas B. '43

NEW YORK—Continued.

Schenectady.

Emmerich, Edward E. '92
MacGregor, George C. '71
*Peck, Hollam L. '46
Smith, David C. '33

Seneca Falls.

Mynderse, Edward '38

Shushan.

*Sanders, William S. '33

Spuyten Duyvel.

Johnson, Isaac G. '48

Stony Point.

*Smith, Theodore S. Jr. '68

Sylvan Lake.

Nicholson, William A. '77

Syracuse.

Cogswell, William B. '51
*Lapham, William G. '46
Humphrey, Henry C. '87
*Westcott, Amos '35
Wilkinson, Alfred '49
*Wilkinson, J. Forman '47

Thompson's Mills.

Blandy, Isaac '87

Ticonderoga.

*Cook, Albert B. '92
Quintana, Manuel P. '84

Tompkinsville.

Duane, Harry B. '78

Troy.

Anderson, Hugh '86
Arms, Edward W. '69
Baermann, Palmer H. '67
Baltimore, Garnett D. '81
Barker, Stephen W. '68
Baucus, William I. '87
Bloss, Jabez P. '46
Bontecou, Reed B. '42
Burden, James '92
Caldwell, James H. '86
Cary, Edward R. '88
Chillman, Edward F. '88
Church, Frederick B. '91
Colby, John D. '84
*Cook, Charles R. '37
Crockett, Charles W. '84
Cummings, Fred'k M. '86
Cummings, William W. '84
Danforth, Henry W '42
*Danker, Albert '26
Dauchy, Edward N. '40
Doughty, Wm. Howard '58
*Eaton, Timothy Dwig't '26
Eldredge, Archibald R. '88
Emigh, John H. '79
*Fay, Francis F. '68
*Field, Charles S. '38
*Gale, E. Thompson '37
Gale, E. Courtland '83

NEW YORK—CONTINUED.

Troy.

Gibbs, Lafayette A. '92
Green, Lansdale B. '91
Greene, Dascom '53
Greene, David M. '51
Gurley, Lewis E. '45
Gurley, Lewis W. '82
*Gurley, William '39
Hallock, James C. '91
Henderson, William '76
*Jenny, Joseph H. '41
Kelly, John P. '76
Knickerbacker, John '86
McGiffert, James, Jr., '91
Mann, Elias P. '72
Mason, William P. '74
*Osborn, George K. '30
Park, Austin F. '40
Parks, Charles W. '84
Pattison, Hrrry D. '74
Renshaw, Alfred H. '83
Ricketts, Palmer C. '75
Roy, Lawrence '91
Shields, Howard Hart '86
Squires, John '69
*Tibbits, George '41
*Thompson, Albert A. '38
Thompson, E. Ray '76
Touceda, Enrique '87
Turner, Benjamin M. '88
Wellington, George B. '75
Wells, Joseph A. '83
*Wotkyns, Alfred A. '47
Young, Fred. Stafford '80

Tuxedo Park.

Breese, James L. '75

Utica.

*Edgerton, Fay '28
*Johnson, George '37
*Williams, Norman A. '59
Woodworth, Bleeker B. '33

Victory.

*Vought, William G. '40

Warrensburgh.

Burhans, Frederic O. '53

Waterford.

*Baker, Henry '37
House, Samuel R. '34
Platt, Joseph C. '66

Watertown.

*Mullin, Anthony T. E. '61
Mullin, Joseph '69

West Troy.

Stebbins, Orrin '39

Whitehall.

Kellogg, Norman B. '73

White Plains.

*Prime, Alanson J. '29

Worcester.

Hill, Augustus G. '31

NORTH CAROLINA.

Asheville.

Thompson, William A. '69

Charlotte.

Thompkins, Daniel A. '73

Dunham.

Bridgers, Robert R. '79

NORTH DAKOTA.

Buxton.

*Gould, James P. '63

OHIO.

Ashtabula.

Boardman, Henry M. '71

Canton.

Landor, Edward J. '76

Carthage.

Caldwell, James N., Jr. '74

Cincinnati.

Aldrich, Truman H. '69
Barnard, John F. '50
*Bell, James E. '73
Birch, Charles E. '92
Campbell, Joseph H. '68
*Clement, William H. '35
Hauck, Albert Louis '86
Price, Victor T. '88
Scarborough, Francis W. '88

Cleveland.

Barber, Clarence M. '78
Buel, Albert W. '83
*Collins, Charles '40
Ford, Frank L. '74
Geuder, Edward G. '76
Gifford, George E. '87
Krause, Conrad B. '79
Osborn, Frank C. '80
Pease, Charles S. '76
Searles, William H. '60
Wade, James, Jr. '42

Columbus.

Waite, Christopher C. '64

Dayton.

*Appleton, Francis E. '63
Campbell, James '43
Waltz, Joseph E. '77

Elyria.

Amsden, Ik. E. '91

Fowler's Mills.

*Percy, James R. '58

OHIO—Continued.

Glendale.

Shepherd, Willard F. '78

Harmar.

*Putnam, George '38

Ironton.

Campbell, Charles '73

Massillon.

Pearl, James W. '80

Mount Vernon.

*Buckingham, Ebenezer P. '61

New Haven.

*Howard, Jerome B. '38

Sandusky.

Moss, Charles H. '67

Steubenville.

Spearman, Francis '84
Torkington, Isaac '87

Toledo.

Buxton, Clifford '65
Harrison, Frank '88
Walbridge, Thomas H. '76

Warren.

*Cotes, Elihu W. '39

Youngstown.

Hine, Samuel K. '92

Zanesville.

Davenport, Ezekiel C. '86

OREGON.

The Dalles.

Cook, Robert G. '47

Portland.

Bogue, V. G. '68
Edwards, Thomas H. '91

PENNSYLVANIA.

Allegheny.

Hetzel, James '85
Kirtland, Albert P. '71
McClintock, Hugh P. '80
Starr, Arthur B. '69

Altoona.

Ely, Theodore N. '66

Bellwood.

Kay, Edgar B. '83

Blairsville.

Keenan, John J. '88

Carbondale.

Manville, C. Rollin '80

PENNSYLVANIA—CONTINUED.

Chambersburg.

*King, William John '80

Chester.

Stevenson, Holland N. '66

Crafton.

Craft, Charles C. '66

Easton.

*Fox, Joseph G. '61
Silliman, Justus M. '70

Ebensburg.

Jaggard, Herbert A. '89

Erie.

Selden, Samuel F. '86

Foxburg.

*Fox, William L. '75

Galitzen.

Keenan, John J. '88

Germantown.

Bushnell, Joseph, Jr. '77
Walbridge, T. Chester '73

Girard.

Nellis, Dan H. '92

Harrisburg.

Davis, Josiah R. T. '76
Neal, Robert C. '70
Roberts, George '88

Hazleton.

Pardee, Calvin '60

Hokendauqua.

Thomas, Samuel R. '91

Huntingdon.

Africa, J. M. '88
Denny, Stacey E. '91

Jonnstown.

Belding, Sherman W. '90
Easby, Marmaduke W. '86
Elder, George R. '84
Moore, Marshall G. '84
Sanders, Francis N. '91
Thackray, George E. '78
Thomas, William H. '91

Kane.

*Chislett, John J. '84

Medina.

Potts, Benjamin C. '63

Natrona.

Hall, John G. '87

Oil City.

Emory, Gustavus W. '87

Philadelphia.

Auchincloss, W. S. '62
*Booth, James C. '31
Burnham, George, Jr. '72
Cassatt, Alexander J. '59

PENNSYLVANIA—Continued.

Philadelphia.

Cleeman, Thomas M. '65
Davis, Charles H. '84
Denegre, William P. '77
*Drayton, Henry J. '39
Freeman, Harold A. '76
Griswold, John W. '65
Henry, John J. '81
Heyl, Jacob E. '70
Ingham, William A. '46
*Kneass, Strickland '39
Kneass, Strickland L. '80
Ludwig, Julius A. '89
Marburg, Edgar '85
Megear, Alter '68
Munoz del Monte, Adolpho Carlos '86
*Murphy, John W. '47
Pardee, Ario, Jr. '58
Pemberton, John, Jr. '60
Perkins, Charles P. '66
Reeves, David '72
Rementer, George L. '84
Roberts, George B. '49
Roberts, Percival '46
Saylor, Francis H. '67
Scott, Charles H. '70
Slagle, W. C. H. '92
Strawbridge, Wm. C. '70
Thomas, Joseph '30
Voorhees, Theodore '69
*Walker, William W. '86
Wilson, Henry W. '64
Wilson, John A. '56
Wilson, Joseph M. '58
Worthington, Charles '92

Phœnixville.

*Griffen, George S. '74
Griffen, Henry R. '77
Reeves, William H. '73

Pittburgh.

*Addison, Alexander '66
Black, Alexander M. '69
Brown, N. W. L. '92
Brown, Robert K. '83
Callery, William V. '86
Card, William D. '90
Clark, Frank Leslie '80
Davison, George S. '78
Ferris, Geo. W. G., Jr. '81
Frank, Isaac W. '76
Garlinghouse, Fred L. '71
Gray, John H. '87
Gronau, William F. '87
Hailman, James D. '87
*Harley, Henry '58
*Harper, Albert M. '67
Johnston, Stewart '87
Kaufman, Gustave '80
Lockhart, John M. '87
McComb, Edward C. '87
McNaugher, David W. '85
Metcalf, William '58
Painter, Augustus E. W. '63

PENNSYLVANIA—CONTINUED.

Schade, Charles G. '92
Schultze, Paul L. '91
Shaw, Henry C. '76
Shields, James W. '90
Singer, Robert R. '77
Springer, Lewis H. '87
Sugden, Clarence H. '89
Tone, Summer La Rue '86
Verner, Henry W. '81
Verner, Morris S. '76
Wainwright, Jacob T. '75
Wilkins, William G. '79
Wilson, Howard M. '84
Yardley, Edmund '56

Reading.

Heizman, Theodore I. '59
Reed, James '73
Reilly, Joy R. '90

Scranton.

Deal, Alvin E. '82
Deal, Elvin A. '82
Platt, Frank E. '79
Storrs, Arthur H. '83
Weston, Charles S. '82

Sharon.

Filer, Walter G. '90

South Bethlehem.

Bowen, Franklin H. '83
Rice, Spencer V. '71

Steelton.

Adams, Edwin G. '91
Earle, Thomas '87
Murray, Jo. D. '92
Reynders, John Van W. '86

Swarthmore.

Beardsley, Arthur '67
Sabbaton, Fred'k A., Jr. '92

Sunbury.

Ewing, James N. '87

Terrytown.

*Horton, George F. '27

Uniontown.

Yeager, Frederick A. '78

Wilkesbarre.

Stearns, Irving A. '68

Williamsport.

Neilson, Robert '61
Otto, John B. '71

York.

Durbin, James G. '84

RHODE ISLAND.

Newport.

Parrish, Edward, Jr. '70
Smith, Frank G. '59

Providence.

Grinnell, Frederick '55
Sherman, William B. '72

SOUTH CAROLINA.

Charleston.

Drayton, James S. '36

Cheraw.

Coit, James C. '58

Rock Hill.

Kay, William G. '75

Trenton.

Rainsford, Thomas H. '81

TENNESSEE.

Chattanooga.

Cushman, George H. '79
Herbert, Paul O. '89
Hoadley, Edward M. '89

Jellico.

Cox, Leonard M. '92

Johnson City.

Harris, William P. '66

Memphis.

*Fisher, Joseph H. '49

TEXAS.

Bastrop.

*Hall, George M. '49

Denison.

Woodruff, Joel R. '49

Fort Scott.

Gearn, Walter A. '78

Gainesville.

Raht, Adolphus W. '77

Houston.

Nugent, Paul C. '92

Jefferson.

*Marks, J. Harrod '71

Marshall.

Smith, H. DeWitt '75

San Antonio.

Stribling, Ben A. '86
Vroom, Peter D. '62

UTAH.

Gastle Gate.

Sharp, William G. '79

Salt Lake City.

Briggs, Roswell E. '68
Young, Don Carlos '79
*Young, Feramorz L. '79

VERMONT.

Bennington.

*Chandler, Jonathan '27
Hyde, Douglas W. '41

Brattleboro.

Cabot, William B. '81

Fairhaven.

*Davey, John J. '27

Rutland.

Harris, Charles P. '73
*Harris, Joel B. '41

Shoreham.

McCaughin, John '42

Shrewsberry.

*Bullard, Gardner '28

West Arlington.

*Buck, B. Franklin '37
McKee, Aaron C. '36

VIRGINIA.

Bickley Mills.

Clark, John A. '87

Charlotteville.

Shaw, Richard E. '78

Norfolk.

*Kingman, Lysander H. '29

Petersburg.

Haskin, Abel N. '40

Richmond.

*Moak, Joseph A. '54

WASHINGTON.

Ballard.

Smith, Stewart Kedzie '86

Charlestown.

Thomson, James P. '88

Gutchell.

Pomeroy, Halsey B. '87

Kiona.

Smith, Charles R. '78

Seattle.

*Thomson, James P. '88

WEST VIRGINIA.

Elkhorn.

Davenport, Fred '92

Morgantown.

Davenport, Henry B. '86

Nolan.

Fowler, Clarence A. '85

Wheeling.

Hearne, Frank J. '67

Peterson, B. Walker '73

WISCONSIN.

Ashland.

Converse, Wade '80

Burlington.

*Lewis, William '40

De Pere.

Kimberly, John A., Jr. '89

Fon du Lac.

Pettibone, C. Vallette '67

La Crosse.

Crosby, Homer '87

Milwaukee.

Baker, Arthur G. '76

*Pierpont, John '69

Wagner, Richard G. '87

Port Washington.

*Oatman, Orlin '27

WYOMING.

Cheyenne.

Patten, Henry B. '78

FOREIGN.

BRAZIL.

Araras.

Franco, Eugenio de Lacerda '78

Bahia.

Argollo, Miguel de T. '71
*Ferrao, José Tell '50
Lacerda, Agusto de '65

Braganza.

Leme, Luis Gonzaga da Silva '80

Campinas.

Salles, Joaquim de '79

Campos.

Barcellos, José J. A. de '68

Pernambuco.

Dias, Luiz da R. '60

Rio Claro.

Martins, José Contreiras '86

Rio de Janeiro.

*Aguiar, A. W. Ferreira de '67
Cantanhede, Palmerio de C. '81
Dias, Edwardo de R. '91
Piraja, José R. de S , Jr. '65

San Paulo.

Franco, Antonio de B. '90
Melchert, Antonio C. d'Aguiar '86
*Rocha, Alfredo F. da '91

Tarbati.

Cintra, Francisco de A. '81

BUENOS AYRES.

Moliner, Julio S. '88

CANADA.

Belleville, C. W.

*Holton, Geo. C. '60

Moncton, N. B.

Marling, William '72

Ottawa.

Thompson, Arthur W. '92

Richmond, C. E.

Pierce, George H. '58

CHILI.

Coquimbo.

Naranjo, Francisco R. '63

Valparaiso.

Sothers, Edward '70

COSTA RICA.

San José.

Echeverria, Juan F. '85

Fritcher, George E. '78

CUBA.

Cardenas.

Casenova, José N. '59
Giberga, Ovidio '85

Havana.

Andre, S. Fortun y. '88
Balbin, Ernesto J. '82
Carbonell, Carlos F. '75
Castro, Alberto de '60
Guerrero, Carlos '67
Mendoza, Victor G. de '88
Menocal, Arturo N. '81
Molina, Ricardo V. '87
Pelaez, Manuel A. '75
*Trujillo, Francisca '57

Ingenio del Cauas.

Munoz del Monte, Luis E. '88

Jesus del Monte.

Aguirregaviria, Casto '88

Matanzas.

Gonzalez, Juan, Jr. '70

Remedios.

Masses, José D. '82
Sariol, Pompeyo '67

Sagua la Grande.

Alcover, Frederico M. '71

Santiago.

Aguilera, Eugene M. '87
Aguilera, Pedro T. '87
*Robinson, John A. '38

Trinidad.

*Escobar, José '67

ENGLAND.

Marlesford.

Hall, Fitz Edward '42

ECUADOR.

Guayaquil.

Besosa, Adolpho E. '75
Millett, Albert H. '67

JAPAN.

Saporo.

Hirai, Seijiro '78
Matsmoto, Souichiro '76

Tokio.

Haraguchi, Kaname '78
*Ishigro, Tara '81

MEXICO.

Mexico.

Potter, Henry W. '79

San Luis Potosi.

Rosa, George de La '86
Rosa, Luis de La '85

Vera Cruz.

Ceballos, Gasper F. de '68

NICARAGUA.

Chinandega.

Gasteazoro, Carlos A. '91

Greytown.

Menocal, Aniceto G. de '62

PERU.

Piura.

Eguiguren, Vincente F. '88
Seminario, Juan '78

Marangani.

Norris, Aleck J. '86

SANDWICH ISLANDS.

*Metcalf, Jeremiah B. '29

Wailuku.

Walbridge, Russell D. '71

SCOTLAND.

Glasgow.

Harrison, R. Morley '79

SERVIA.

Belgrade.

*Grant, Edward M. '60

SPAIN.

Barcelona.

Matas, Ramon '60

U. S. OF COLOMBIA.

La Palma.

Anzola, Roberto '69

Panama.

Arango, Ricardo M. '87
Arosemena, Carlos C. '92
Sosa, Pedro J. '73
Zegarra, Enrique C. '74

Puerto Berrio.

Botero, Fabriciano '85

Santa Martoa.

Luaces, Ernesto L. '67

WEST INDIES.

Jamaica, Middle Qvarters.

Easby, Paul H. '86
Macksey, Henry V. '86

Ponce, Porto Rico.

Viscarrondo, Lorenzo J. de '59
Guerro, Arturo '76

Manzanville Bay, San Domingo.

Hernandez, José '67